
USER'S MANUAL

COMPACT MACHINE "NEO"

TEJT-C



FOREWORD

This User's Manual contains information useful for operating TAJIMA Embroidery Machine, Model TEJT-C "Neo" (To be collectively referred to as machine in this manual). Persons who touch a machine for the first time, as well as those who are experienced in the machine operation, will find this manual helpful for understanding and performing the machine operation procedures. Please read through this manual and understand the contents before operating the machine.

The contents of this manual are largely divided into the following sections.

- [IMPORTANT SAFETY INSTRUCTIONS]
- [IMPORTANT WARNING ITEMS FOR SAFE OPERATION]
- [MACHINE CONSTRUCTION]
- [SETTING • OPERATION]
- [OUTLINE OF FUNCTIONS]
- [ELECTRO-COMPONENT PARTS]
- [TROUBLESHOOTING AND MAINTENANCE]

Concerning optional devices, please refer to the instruction (user's) manual of the optional device you have purchased.

This manual may contain discrepancies in detailed information when compared with the actual machine due to continued research and improvements. If any question about the machine contents of this manual arises, please contact your TAJIMA distributor.

Please keep this manual near the machine for immediate reference. When this manual is not used, keep it carefully.



IMPORTANT SAFETY INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS

Operation of this machine requires correct operation and appropriate maintenance to ensure safety.

Please read the IMPORTANT SAFETY INSTRUCTIONS in this manual carefully and do not attempt operation or maintenance of the machine before you thoroughly understand the items written under IMPORTANT SAFETY INSTRUCTIONS.

Items that require your special attention on operation and maintenance of the machine are specified below with the warning symbol and signal word. These items must be strictly observed to ensure safety during operation and maintenance. Signal word definition is given below.

DANGER

Indicates that there is a lot of danger of death or serious injuries [*1] if the instruction is not observed.

WARNING

Indicates that there is a likelihood of death or serious injuries [*1] if the instruction is not observed.

CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury [*2] or property damage.

*1: A condition caused by electric shock, injury, fracture of a bone, etc. that leads to sequelae, or an injury that necessitates hospitalization or visits to a hospital over a long period.

*2: An injury that does not necessitate hospitalization or visit to a hospital over a long period.



: Prohibited items



: Items that may cause electric shock if not observed.



: Items that must be followed carefully to ensure safe operation.



: Items that instruct about connection of grounding wire.

The items that must be observed for comfortable operation are described following to .

The information which gives details or supplements the explanation appears following to .

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1. IMPORTANT WARNING ITEMS FOR SAFE OPERATION

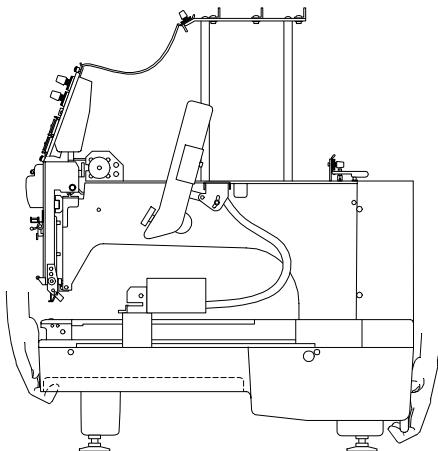
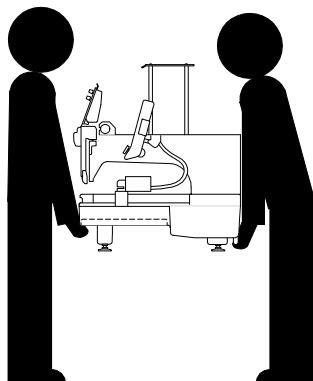
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CARRYING

WARNING

- 🚫 Carrying the machine must be performed by two or more persons.**
Dropping the machine could cause injury or damage of the machine.
- 🚫 When carrying the machine, hold the correct positions.**
Dropping the machine could cause injury or damage of the machine.



INSTALLATION

CAUTION

- 🚫 Do not use the machine in a place where ambient temperature is 45°C and more, or 5°C or less, a humid place, or outdoors.**
If the machine is used in such a place as above, it may cause damage of the machine.
- 🚫 Do not use the machine in a place where a strong electric field or a magnetic field is generated by a high output high-frequency generator or a high-frequency welder, etc.**
Malfunctioning may cause injury or damage of the machine.
- ❗ Place the machine on a solid stand make the machine level.**
Dropping the machine may cause injury or damage of the machine.
- ❗ Install the machine after confirming that the embroidery frame or drive system of the machine does not touch objects nearby or walls.**
If the machine touches objects or walls, it may cause injury or damage of the machine.

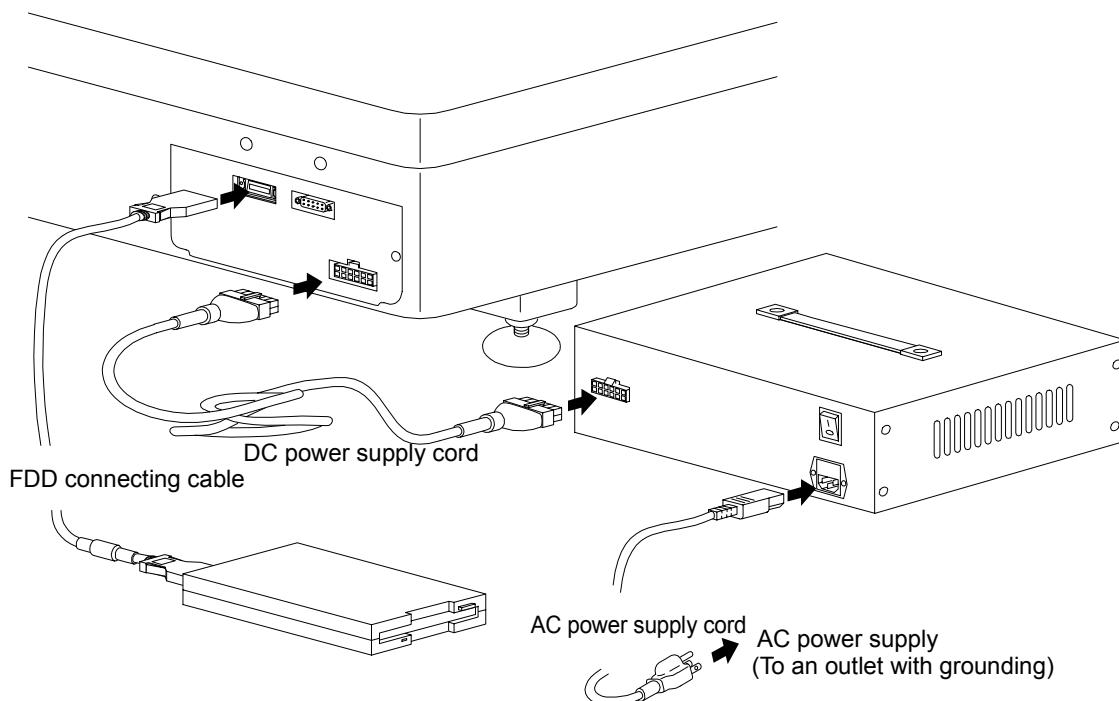
WIRING

Insulation resistance: 10M ohms or greater (measured with a 500 V insulation tester)

! CAUTION



Connect the grounding wire of the machine to the ground (class 3 grounding, grounding resistance: 100 ohms or less). If the machine is used without grounding, there is a danger of electric shock due to leak current.



CAUTIONS ON MACHINE OPERATION

WARNING

-  Do not put your hands or face near the moving parts of the machine. Especially, the areas near moving needle are dangerous. They could cause injury.
-  Do not damage, modify or heat the power and other cables. Do not exert undue force to them, either. Otherwise the cables will be damaged causing fire and electric shock.
-  Insert the power cable plug fully. If a metallic part touches a blade in the plug, it may cause fire and/or electric shock.
-  Keep away electrical units from water and chemicals. Entry or splashing of them into units leads to short circuits of internal circuits, causing fire, electric shock and other troubles.
If water or other chemicals enter a unit, shut off the power switch and the primary power supply and contact the distributor.
-  When pulling out the power cable, hold the plug and pull out the cable.
If holding the cable to pull out, the cable or plug may be damaged causing fire or electric shock.

CAUTION

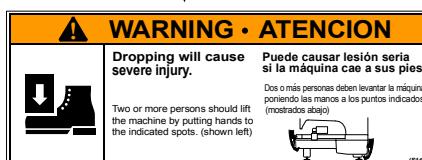
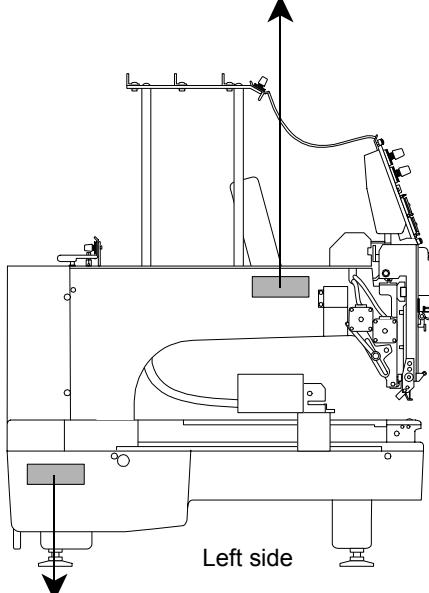
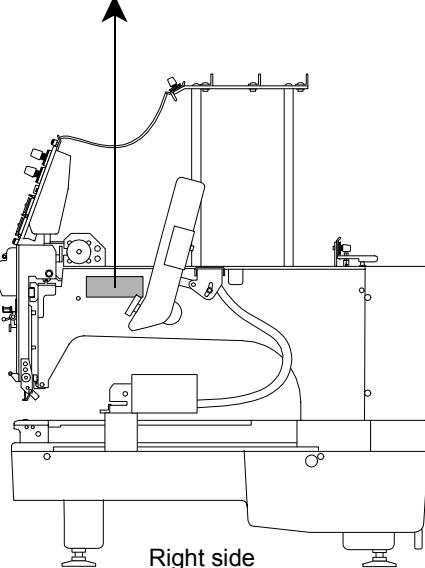
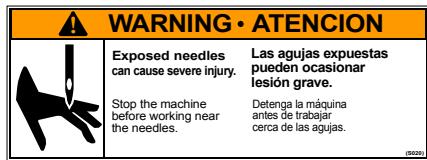
-  For long life machine operation, operate the machine with about 70% of the maximum speed as "operation for total fitting" for about one month after installation. By performing operation for total fitting, life of the machine will become longer, which will be useful to avoid unexpected troubles.
-  The machine is designed and built for industrial use. Use this machine for semi- or finished textile products and similar materials. Using the machine for other purposes must be avoided. It may cause damage of the machine.
-  Only the persons who are sufficiently trained for the operation must operate the machine. Wrong operation may cause injury.
-  Read this manual and thoroughly understand the contents of operation before starting the machine. Wrong operation may cause injury.
-  Wear proper clothes and tidy up yourself so that you can smoothly perform the operation.
-  Do not ride on the machine. It may cause injury.
-  Do not run the machine without the take-up lever guards or covers of moving units. It may cause injury.

WARNING LABELS

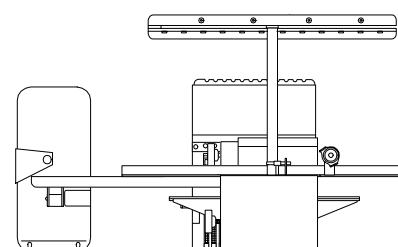
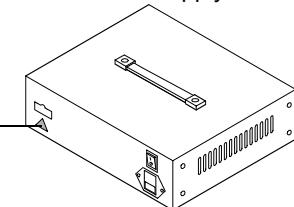
The machine has warning labels that bear instructions for safe operation. Machine operators must follow the instructions shown on the warning labels.

Do not detach these labels, nor make them illegible by painting, etc.

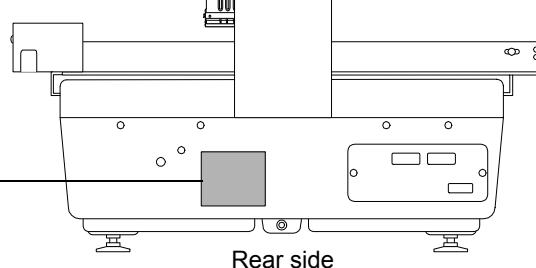
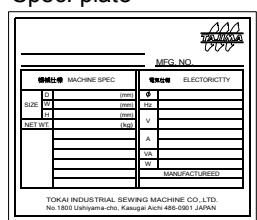
If a warning label is missed or damaged, please contact the distributor.



Power supply box



Spec. plate

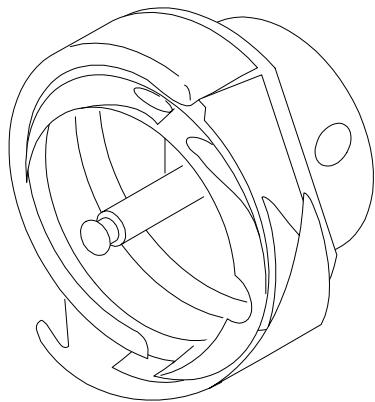




IMPORTANT WARNING ITEMS FOR SAFE OPERATION

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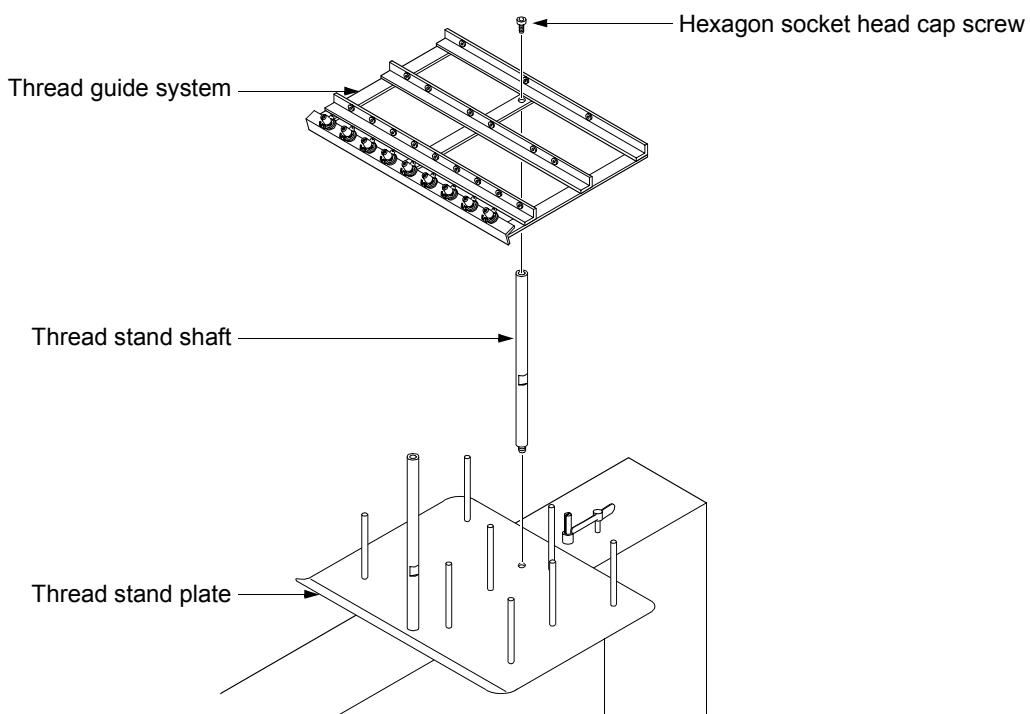


ATTACHING THE THREAD GUIDE SYSTEM

WARNING

! When attaching the parts, to prevent accidents resulting in injury or physical damage, be sure to turn OFF the primary power supply.

- (1) Attach the thread stand shaft.
- (2) Attach the thread guide system to the thread stand shaft.



CHECKING THE EMBROIDERY HEAD

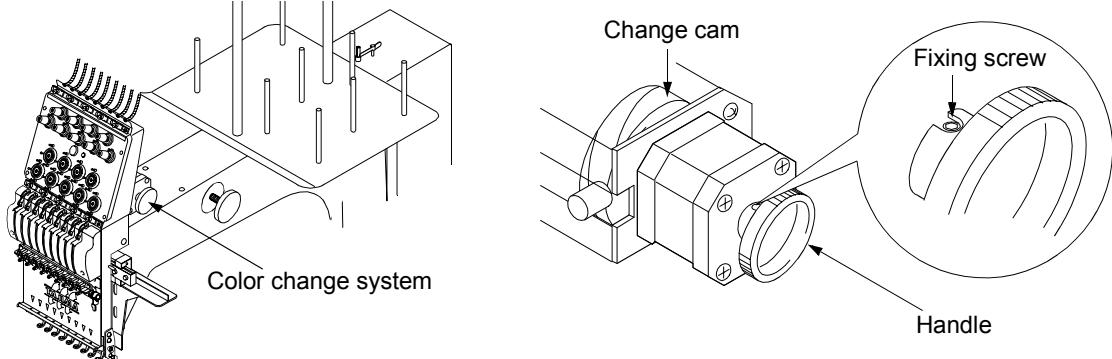
WARNING

! When attaching the parts, to prevent accidents resulting in injury or physical damage, be sure to turn OFF the primary power supply.

1. Color Change System

The color change system is a device to select needle bar. When the change cam departs from the fixed position, the machine does not work.

- (1) Turn the handle of the color change system so that the fixing screw faces to the upper position.



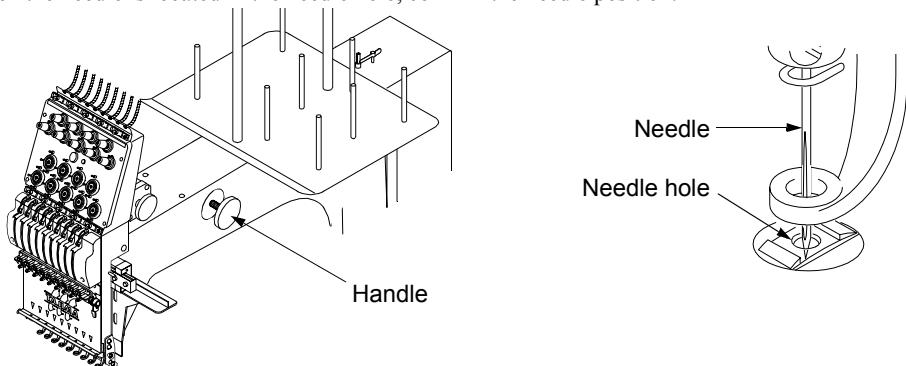
When the fixing screw faces to the upper position, odd-numbered needle bar is selected.

2. Needle Locating Position

After checking the position of the change cam, confirm the needle locating position.

- (1) Turn the handle of the main shaft counterclockwise keeping pressing the handle.

- (2) When the needle is located in the needle hole, confirm the needle position.



- (3) Check if the needle is located at the center of the needle hole.

When the needle is bent, replace it with new one.

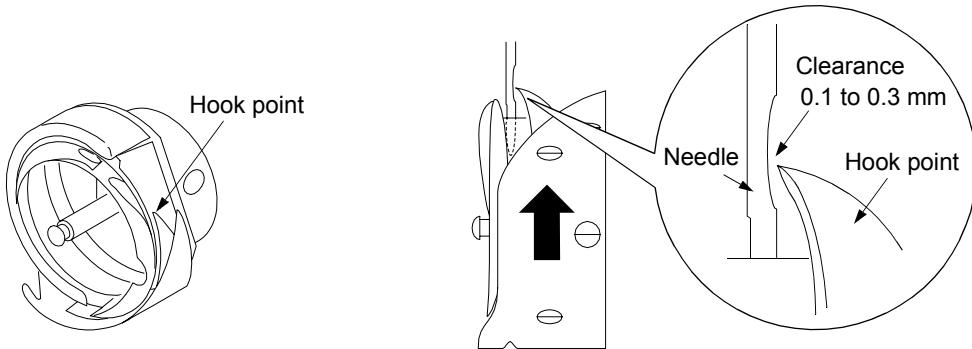
3. Clearance between the Rotary Hook and Needle

When checking clearance between the rotary hook and needle, perform checking at the first needle and the last needle.

(1) Turn the handle of the main shaft so that the needle bar reaches the lower dead point.

Lower dead point: The state that needle bar is lowered at the lowest position (main shaft 180°).

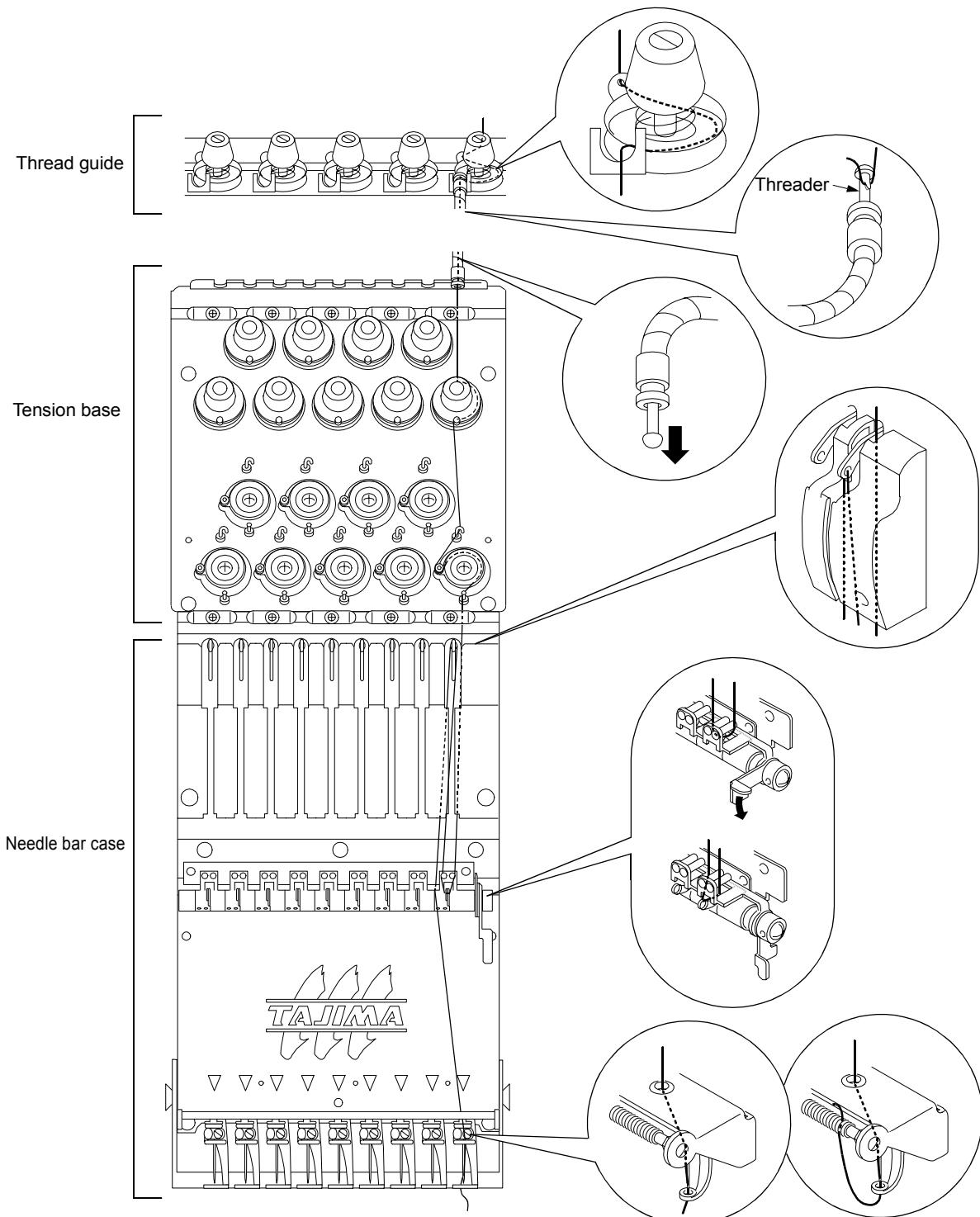
(2) Check the clearance between the hook point of the rotary hook and the needle.



THREADING

Perform threading as the illustration below.

 The threader is included in the accessory.



CONNECTING THE POWER CORD

Insulation resistance: 10M ohms or greater (measured with a 500 V insulation tester)

CAUTION

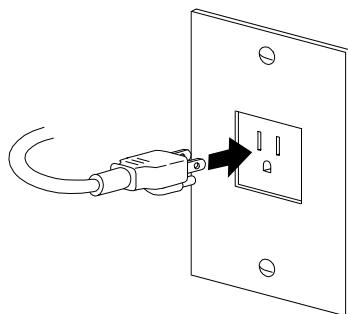


To avoid the danger of electric shock due to leak current, be sure to connect the grounding wire of the machine to the ground (Class 3 or greater, grounding resistance 100 ohms or less).

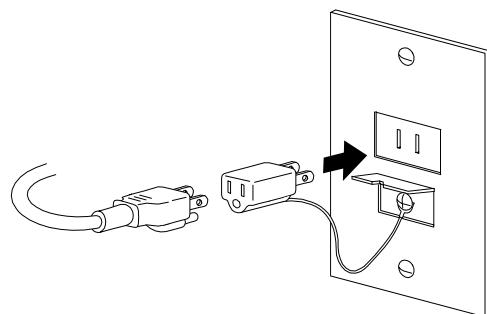
Connect the machine to the single phase power supply.

Use the connecting adapter^[*1] according to type of outlet.

- If the outlet is 3P type, connect the power plug^[*2] as it is.



- If the outlet has a grounding terminal with wire, attach the connecting adapter to the power plug^[*3] and connect the plug to the outlet. Attach the grounding wire to the grounding terminal.



If there is no 3P type outlet or outlet does not have grounding terminal, consult the distributor.

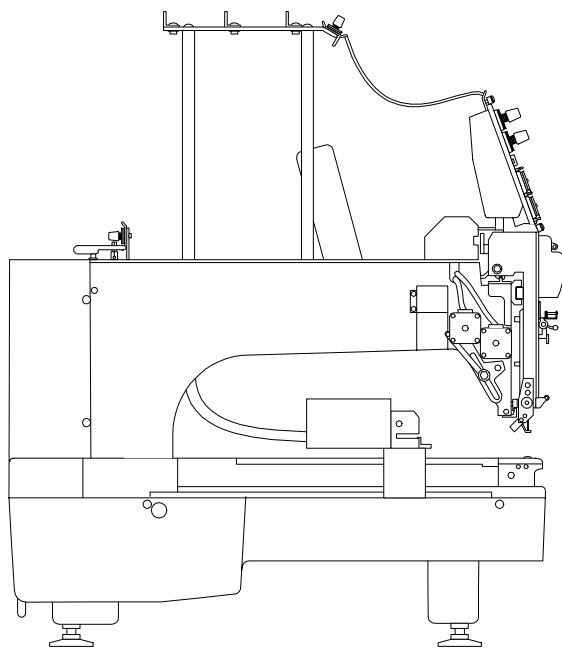
*1: Please prepare the power plug on customer's side.

*2: Please prepare the power plug on customer's side.

*3: Please prepare the power plug on customer's side.

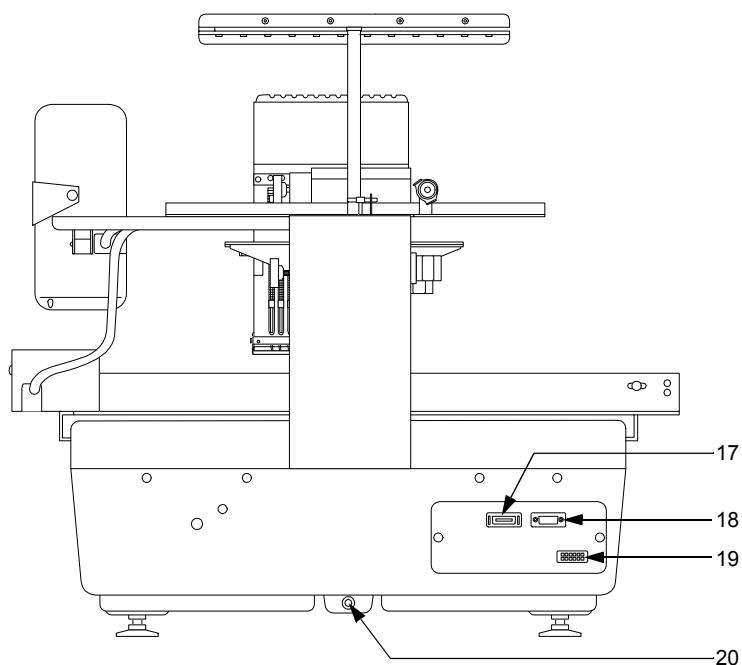
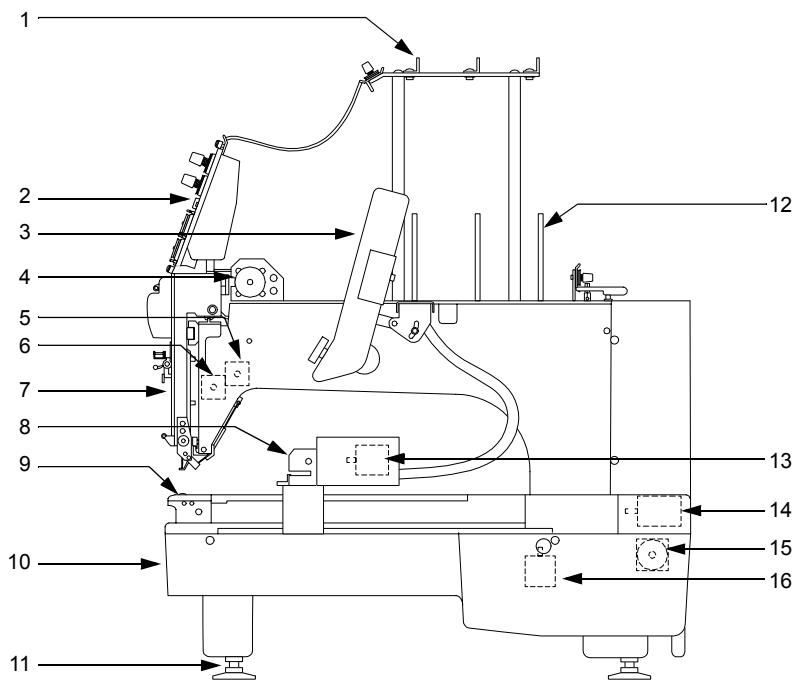
3. MACHINE CONSTRUCTION

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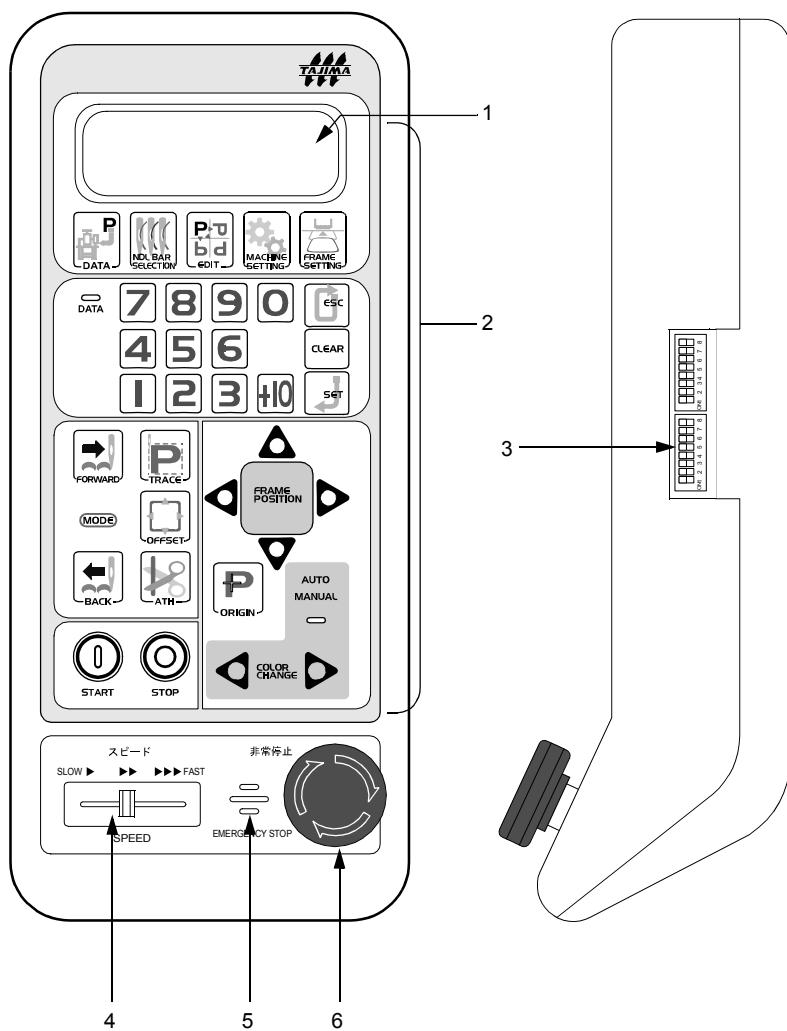
NAME OF EACH PART

1. Main Body



1. Thread guide system
2. Tension base
3. Operation panel box
4. Color change motor
5. Thread holding motor
6. Jump motor
7. Needle bar case
8. Z-spec. frame
9. Needle plate
10. Stand
11. Leveling adjuster
12. Thread stand stud
13. X-axis motor
14. Main shaft motor
15. Y-axis motor
16. ATH motor
17. FDD connector
18. Serial connector
19. Power supply connector
20. Oil bleeding hole

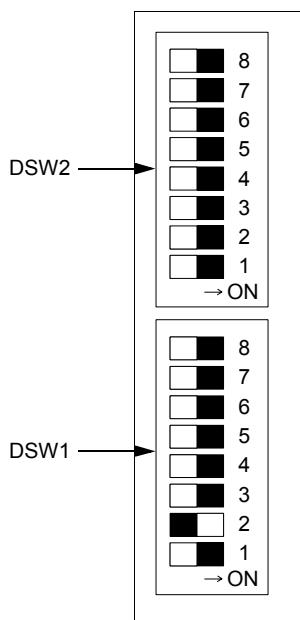
2. Operation Panel Box



⚠ Do not push the operation panel with an object with sharp point. It may cause damage of the machine.

3. DIP SWITCH

DSW2



No.	Contents	OFF	ON
8	-	* -	-
7	-	* -	-
6	-	* -	-
5	-	* -	-
4	Satin stitch conversion	* Adjusts stitch length of 1.5 mm and more	Adjusts stitch length of 0.6 mm and more
3	Satin adjust	* Adjusts X and Y at the same time	Adjusts X and Y individually.
2	Install from	* Floppy disk drive	Personal computer
1	Operation mode 2	* Usual operation mode	Install mode Turn ON DSW1-1

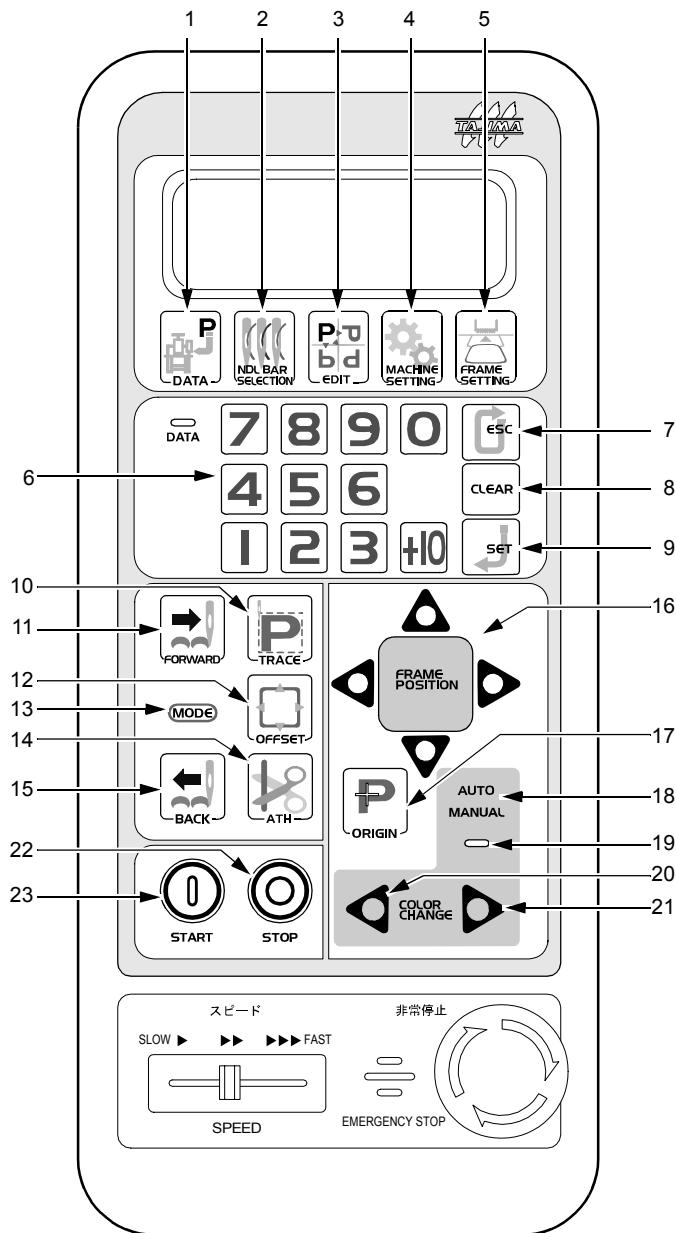
DSW1

No.	Contents	OFF	ON
8	Main shaft acceleration speed	* Standard	Acceleration: High speed
7	-	* -	-
6	-	* -	-
5	-	* -	-
4	Moving direction of frame travel key	* Based on frame	Based on design
3	The number of buzzer sounds	* 10 times	1 time
2	LCD character display	* English	Japanese
1	Operation mode 1	* Usual operation mode	Test mode

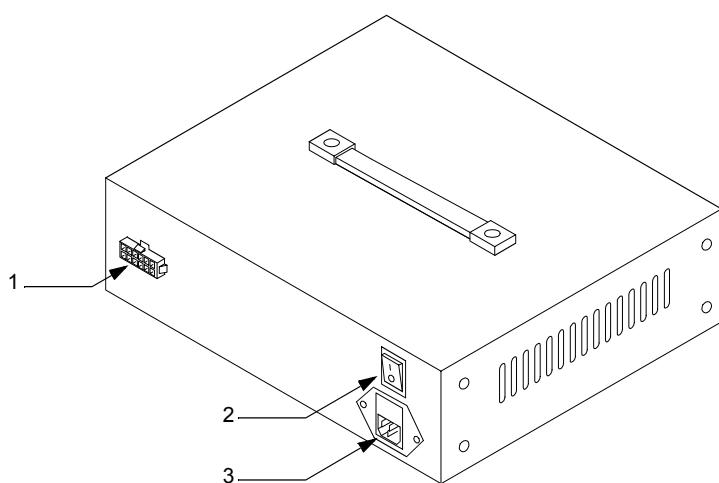
Turn ON the power switch again after changing setting of DIP switch.

* The setting when the machine is shipped from the factory.

4. OPERATION PANEL

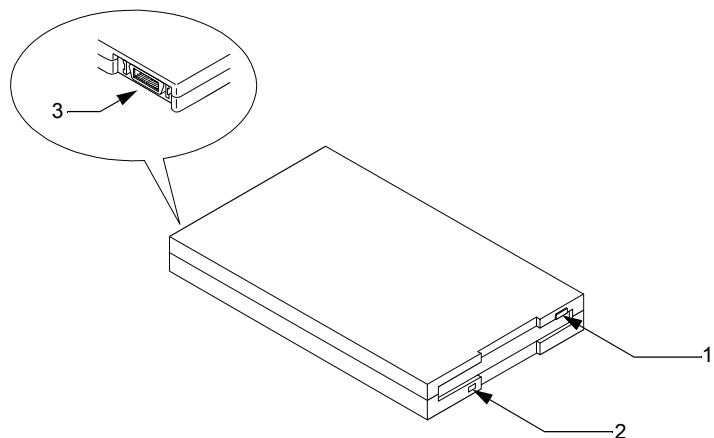


5. POWER SUPPLY BOX



1. DC power supply connector
2. Power switch
3. AC power supply connector

6. FLOPPY DISK DRIVE



1. Disk eject button
2. Operation indicator lamp
3. FDD connector

MAIN SPECIFICATIONS

CAUTION

 If using the machine deviating from the contents of specifications of power supply/power consumption, trouble may occur.

Specifications	Contents
Speed	120 ~ 1,200 rpm
Embroidery space	360 × 500 mm
Input data capacity	280,000 stitches or less
Weight	80 kg
Dimension	W 665 × L 805 × H 796 mm
Electric current/capacity/ Hz	1.2 A (200 V) 225 VA 50/60 Hz
Power supply/power consumption	AC 100 V ~ 120 V, 200 V ~ 240 V Max. 220 W

 The maximum speed is limited by frame setting and stitch length.

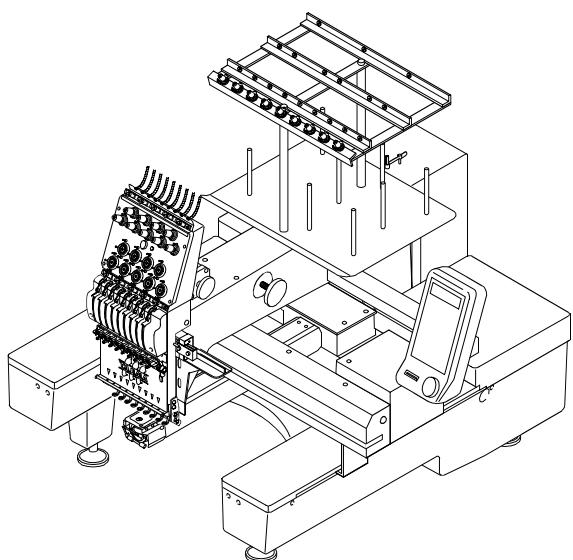
Insulation resistance: 10M ohms and greater (measured with a 500 V insulation tester)

WARNING

 Connect the grounding wire of the machine to the ground (class 3 or greater grounding, grounding resistance: 100 ohms or less). If the machine is used without grounding, there is a danger of electric shock due to leak current.

4. BASIC OPERATION

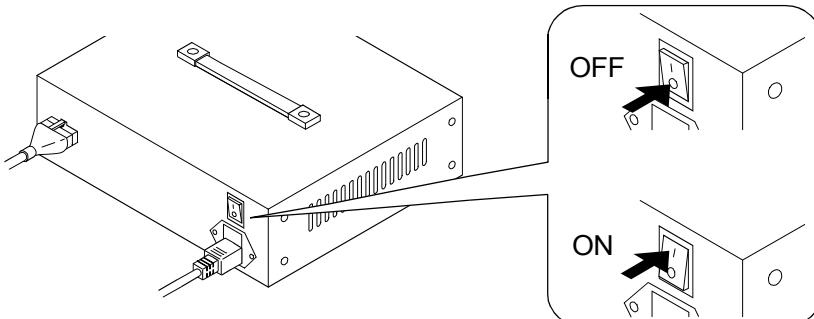
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MACHINE START AND STOP

1. Power Switch

The power switch is located on the power supply box.

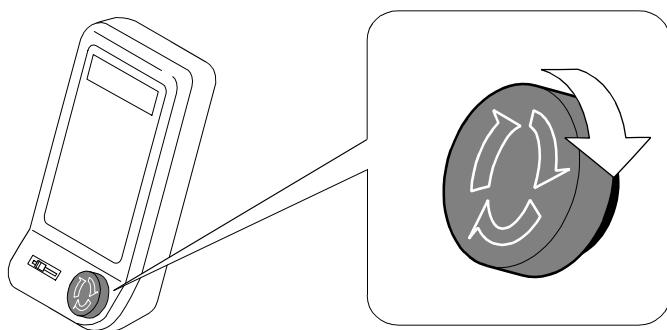


- When turning ON the power again, turn “OFF” the power switch and wait for two or three seconds. Then, turn it “ON”.

2. Emergency Stop Switch

To stop the machine in an emergency, press the emergency stop switch. Pressing the emergency stop switch will cause the main shaft to stop immediately.

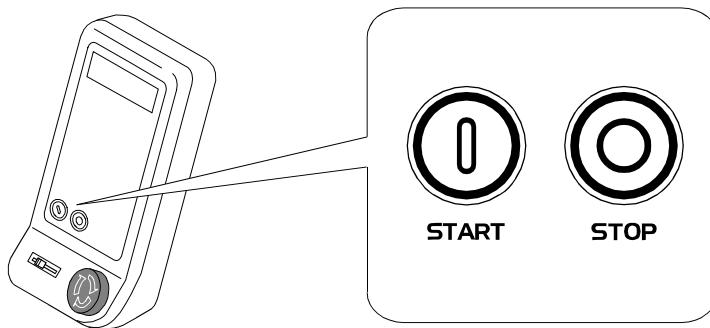
To release the stop lock, turn the switch to the direction indicated by the arrow.



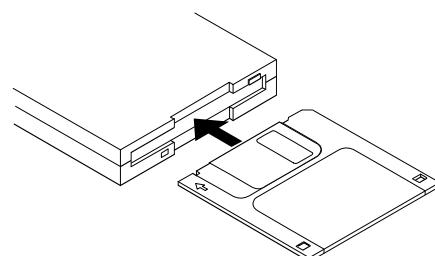
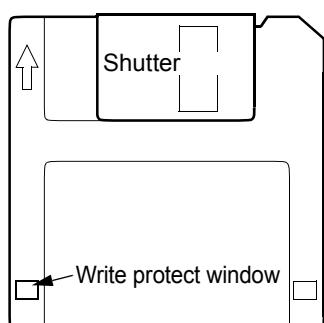
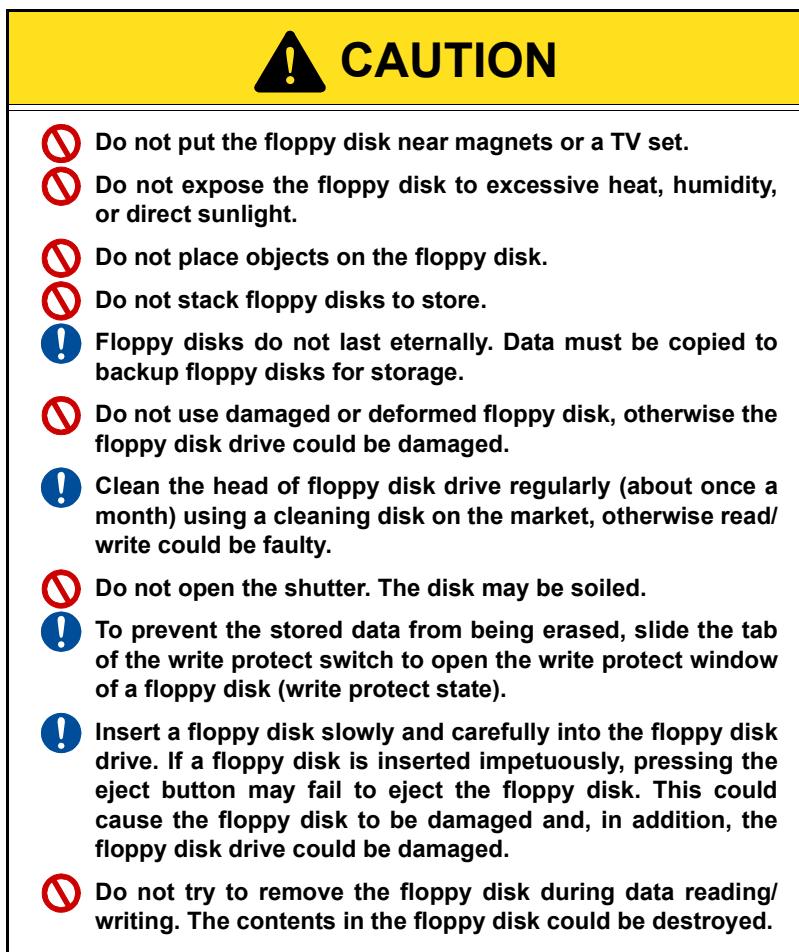
- When releasing the emergency stop, do not move the frame.

3. Start and Stop Switch

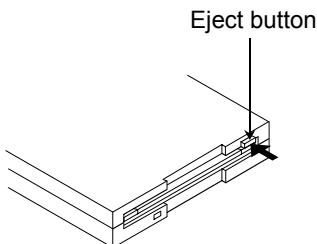
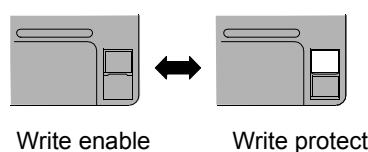
The start switch starts the machine and the stop switch stops the machine. Pressing the stop switch will cause the needle bar to stop at the fixed position.



PRECAUTIONS FOR HANDLING FLOPPY DISKS AND FDD (OPTION)



⚠ Do not use unformatted floppy disks.



PROGRAM INSTALLATION

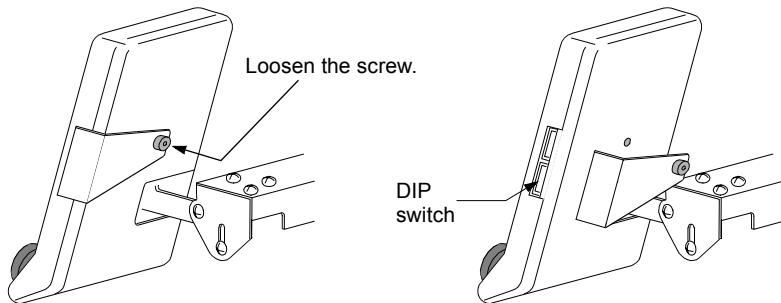
Program installation includes main program, XY program, and operation program. It is possible to install these programs through a personal computer or the floppy disk drive (FDD).

The program installation is required when setting up the machine or upgrading the version.

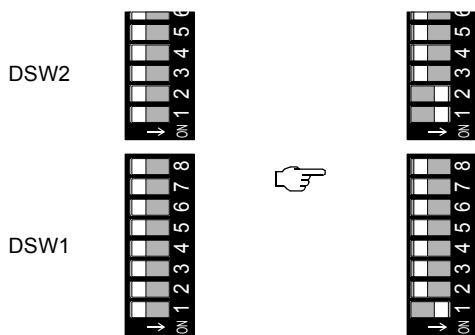
Perform the program installation after turning "OFF" the power switch.

[When installing from personal computer]

1. Detach the switch cover.

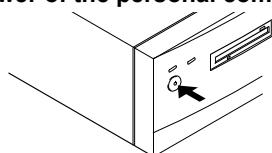


2. Turn ON the DSW2-1, 2-2, and DSW1-1.

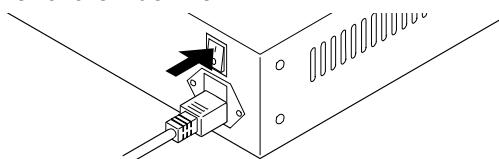


3. Connect the personal computer and the machine with the serial cable.

4. Turn ON the power of the personal computer.



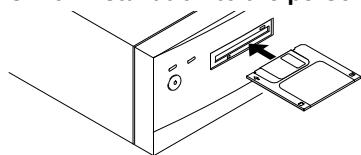
5. Turn ON the power of the machine.



 After turning ON the power switch, the screen will become as shown below.

```
***** INSTALL *****  
FROM PC
```

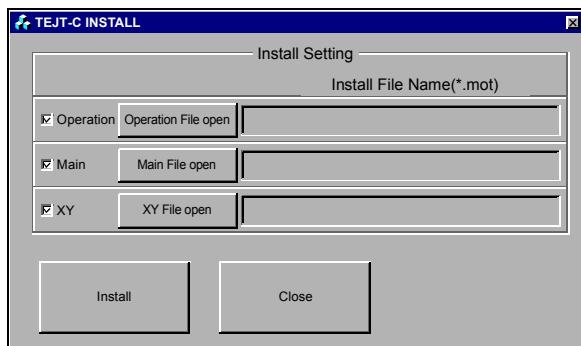
6. Set the floppy disk for installation to the personal computer.



7. Execute "Tejt_inst.exe" to display the screen for installation.

"Tejt_inst.exe" is included in the floppy disk.

8. Select the program file to install.



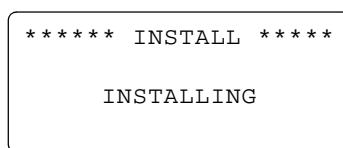
9. Press key to start installation.

When pressing the program name key, file selecting screen will be displayed. Then select the program file which you want to install.

The program file is also included in the floppy disk.

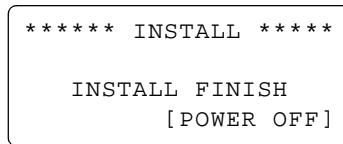
Operation: Program related to panel
Main: Program related to CPU
XY: Program related to drive system

10. Install.

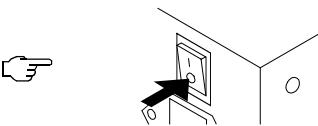


When pressing install key, installation will proceed automatically.

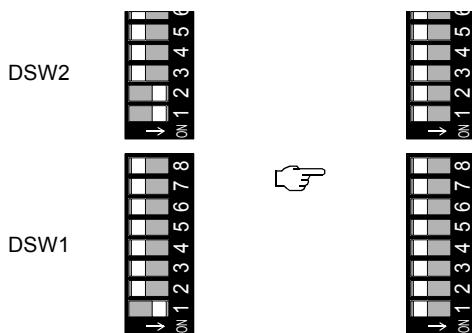
11. Installation is completed.



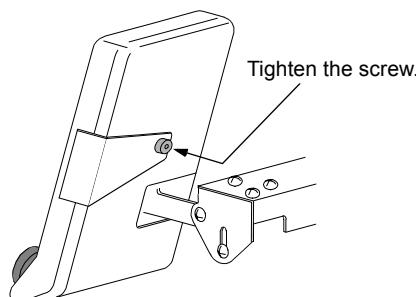
When the installation is completed, turn "OFF" the power switch.



12. Turn OFF the DSW2-1, 2-2, and DSW1-1.

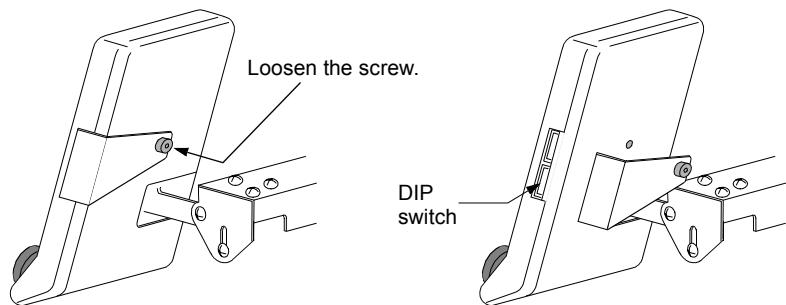


13. Attach the switch cover.

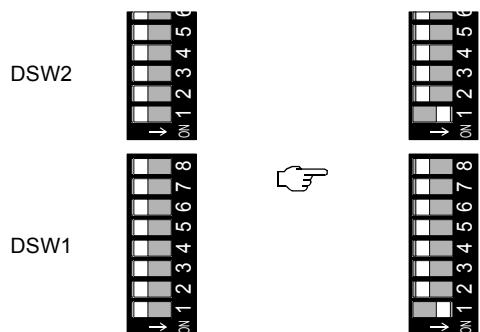


[When installing from FDD]

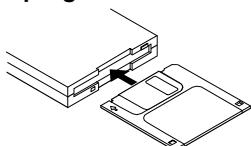
1. Detach the switch cover.



2. Turn ON the DSW2-1 and DSW1-1.



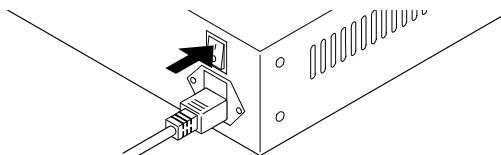
3. Set the program disk.



When inserting the program disk after turning ON the power switch, the screen will become as shown below. Press the [SET] key to continue operation from 5.

***** INSTALL *****
SET KEY →FILE SEARCH

4. Turn ON the power switch.



5. Select program.

***** INSTALL *****
1.MAIN → -
2.XY → -
3.OPER → -



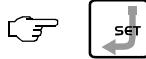
MAIN: Program related to CPU
XY: Program related to drive system
OPER: Program related to panel

6. Select “INSTALL”.

```
***** INSTALL *****
1.MAIN      → -
2.XY        → -
3.OPER      → -
```

**7. Start installation.**

```
***** INSTALL *****
1.MAIN      → -
2.XY        → -
3.OPER      → INSTALL
```



When installing plural programs, it is possible to select plural installation items by performing operations 6 and 7.

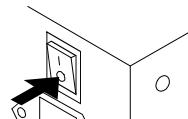
```
***** INSTALL *****
1.MAIN      → INSTALL
2.XY        → -
3.OPER      → INSTALL
```

8. Install.

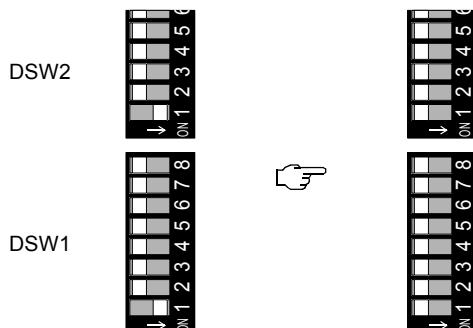
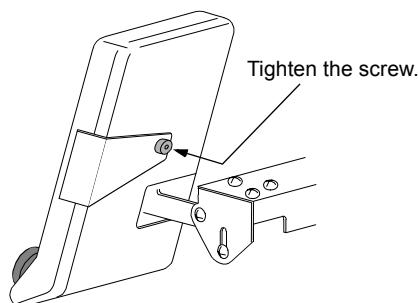
```
***** INSTALL *****
          OPER
      INSTALLING
[ >>> ]
```

9. Installation is completed.

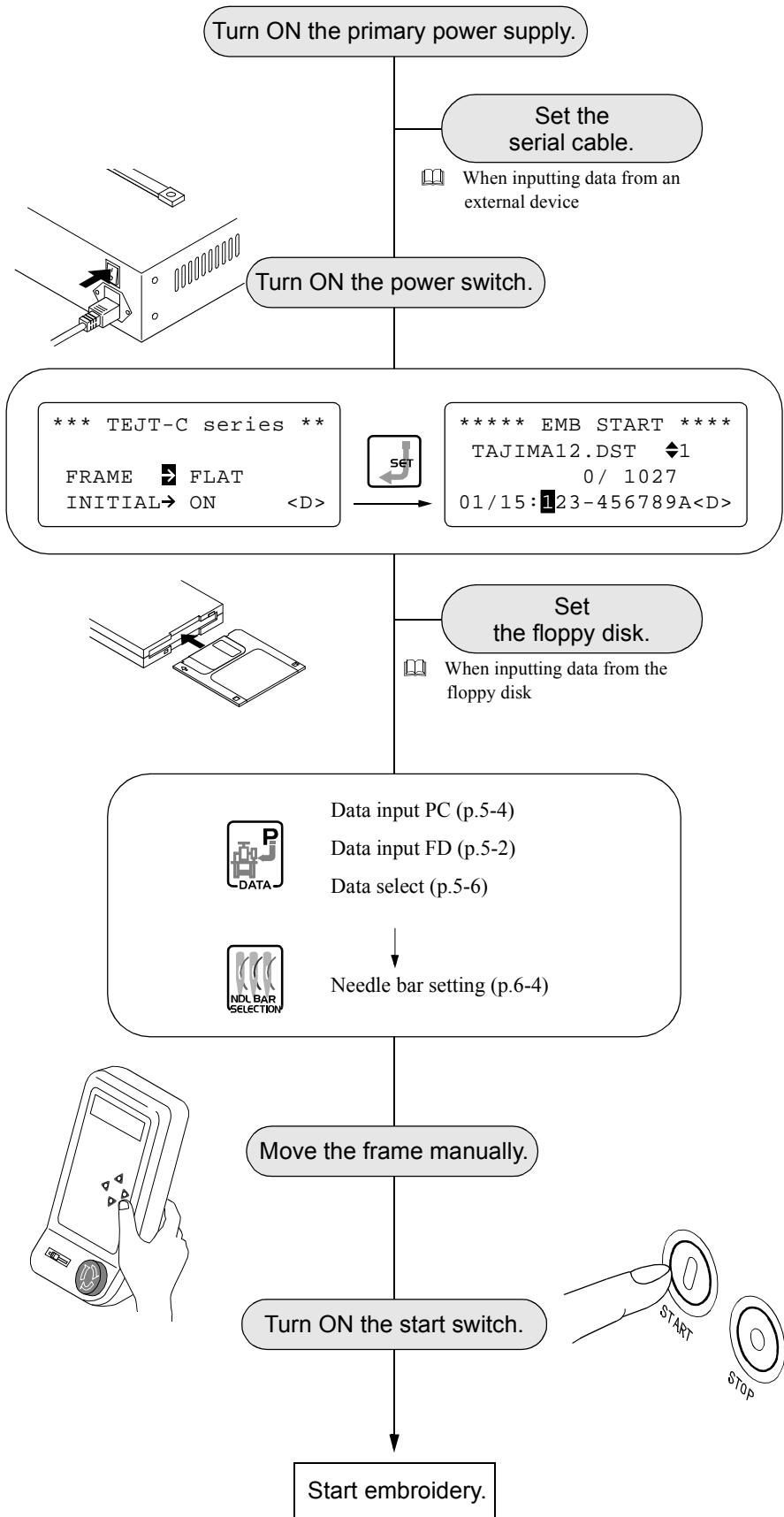
```
***** INSTALL *****
      INSTALL FINISH
      [ POWER OFF ]
```



When the installation is completed, turn “OFF” the power switch.

10. Turn OFF the DSW2-1 and DSW1-1.**11. Attach the switch cover.**

OPERATION FLOW UP TO START OF EMBROIDERY



EXPLANATION ON SCREEN

The descriptions below are explanation for LCD screen displayed at each situation.
When it is possible to change setting, the operation button on the panel is displayed.

● MAIN

POWER ON <ul style="list-style-type: none"> 1: FRAME mode (FLAT/CAP/CYLNDR) 2: Origin return (ON: To perform/OFF: Not to perform) 	<pre>*** TEJT-C series ** FRAME → FLAT 1 INITIAL → ON 2 <D></pre>
EMB. START <ul style="list-style-type: none"> ◎ When automatic color change is performed: Change automatic to manual using . 1: Design name 2: FB/FF feed unit (1, 10, 100, C, n-stitch) 3: The current number of stitches/the number of total stitches 4: The current step/the number of total steps: Needle bar number in color change order 	<pre>***** EMB START ***** TAJIMA12.DST 1 2 4 0 / 1027 3 01/15 : 123-456789A<D></pre>
EMBROIDERING <ul style="list-style-type: none"> 1: The current number of stitches/the number of total stitches ↔ the current number of stitches/maximum rpm BOOK Set at "Screen" for machine setting. 	<pre>***** EMB START ***** TAJIMA12.DST 1 0 / 1027 01/15 : NO. 2 1</pre>
EMB. PAUSE <ul style="list-style-type: none"> 1: Stop by temporary stop BOOK Insert "--: Temporary stop" at needle bar setting (The machine stops temporarily before performing automatic color change). 	<pre>***** EMB PAUSE ***** TAJIMA12.DST 1 1 66 / 900 rpm 01/15 : 123-456789A<D></pre>
	<pre>***** EMB PAUSE ***** TAJIMA12.DST 1 159 / 1027 01/15 : NO. 4 1</pre>

BASIC OPERATION

- DATA SET MENU: Press  in the state of “Embroidery start” of MAIN.

1: Data input switching (PC: Serial/FD: Floppy disk)



◎ Serial input

a: Label name

b: Remaining memory capacity (stitches)

◎ FD input

c: Design number→Design name 

d: The number of stitches of FD design

e: Remaining memory capacity (stitches)

2: Memory design selection



a: Memory number/total memory capacity → Design name



b: The number of stitches of memory design

c: Remaining memory capacity (stitches)

3: Memory design deletion



◎ Design selection

a: Memory number/total memory capacity → Design name



b: The number of stitches of memory design

c: Remaining memory capacity (stitches)

◎ Confirmation of deletion

a: Y (yes)  N (No) 

DATA INPUT

DESIGN SELECT

DESIGN DELETE

***** DATA MENU *****

1.INPUT DATA → PC **1**
2.SELECT DATA **a**
3.DELETE DATA **b**

*** INPUT THRU PC **

NAME → FLOWER **a**
MEMORY→ 56897 ST **b**

**** SELECT FILE ***

a 1/23 → BIRD.TBF
STITCH→ 10713 ST **b**
MEMORY→ 180876 ST **c**

***** DATA MENU *****

1.INPUT DATA → PC
2.SELECT DATA **2**
3.DELETE DATA

a* SELECT DESIGN **

01/12 → BIRD.TBF
STITCH→ 10713 ST **b**
MEMORY→ 180876 ST **c**

***** DATA MENU *****

1.INPUT DATA → PC
2.SELECT DATA
3.DELETE DATA **3**

a* DELETE DESIGN **

01/03 → TAJIMA12.TBF
STITCH→ 99999 ST **b**
MEMORY→ 280876 ST **c**

*** DELETE DESIGN **

DELETE OK ?
a [Y=SET , N=ESC]

INPUT MODE

4: Input mode of memory design

a: Mode selection (Single/Multi)



Single: It is possible to perform embroidery without storing data in memory.

Multi: Input data to memory.

***** DATA MENU *****
 2. SELECT DATA
 3. DELETE DATA
4. MEMORY MODE → 4

***** MEMORY MODE *****
MEMORY → MULTI → a

DESIGN SELECT

5: Memory initialization

a: Y (yes) N (no)

● Color change setting: Press in the state of “Embroidery start” of MAIN.

◎ When automatic color change is performed

1: Color change mode (automatic/manual)

The lamp will turn on when manual is set.

2: The current step/the number of total stitches: Color change order + ten keys (numerical keys)

Insert “-: Temporary stop” using .

a: In the state of temporary stop of needle bar

***** DATA MENU *****
 3. DELETE DATA
 4. MEMORY MODE
5. INITIAL MEMORY → 5

** INITIAL MEMORY **
 DELETE ALL DATA OK ?
a → [Y=SET, N=ESC]

NEEDLE SELECT

◎ When manual color change is performed

1: Color change mode (automatic/manual)

2: The current step/the number of total steps:

The current needle bar number

*** COLOR CHANGE ***
 MODE → AUTO → 1
 01/15: 123456789ABCDE → 2

*** COLOR CHANGE ***
 MODE → AUTO
 STOP → a
 04/15: 123-456789ABCD

*** COLOR CHANGE ***
 MODE → MANUAL → 1
 01/15: No. 7 → 2

BASIC OPERATION

- Data setting: Press  in the state of “Embroidery start” of MAIN.

1: Rotation (90° unit) 

2: Mirror image reversion (OFF/X: Reversion based on X-axis/

Y: Reversion based on Y-axis) 

3: Repeat 

④ Repeat setting

a: Repeat direction (Horizontal/Vertical) 

b: The number of times of repeat (01 to 99) 

c: Space (0 to 255 mm) 

- Frame setting: Press  in the state of “Embroidery start” of MAIN.

1: Manual frame travel speed (1 to 3) 

2: Offset setting after completion of embroidery

(automatic/manual) 

3: Origin return after completion of embroidery

(automatic/manual) 

4: Frame mode (Flat/Cap/Cylinder) 

5: Initial (ON/OFF)

FRAME SETTING

***** DESIGN EDIT *****
1. ROTATE → 0° **1**
2. MIRROR → OFF **2**
3. REPEAT → [SET] **3**

** REPEAT SETTING **
DIR → HORIZONTAL **a**
TIMES → 03 **b**
SPACE → 120 mm **c**

***** FRAME SETTING *****
1. MANUAL SPD → 1 **1** **2**
2. OFFSET → AUTO **3**
3. START PNT → AUTO

***** FRAME SETTING *4
4. FRAME MODE → FLAT
5. INITIAL → ON

- Machine setting: Press  in the state of "Embroidery start" of MAIN.

MACHINE SETTING

1: Display (Stitch/rpm) 

2: Thread breakage sensor (OFF/1 to 4) 

3: Preset halt 

④ Preset setting

a: The number of total stitches (999999 stitches: max.)

 It can be cleared.

b: The number of stitches for halt (0 to 999999 stitches)
Ten keys (numerical keys)

4: Thread trimming length (1 to 17) 

5: Thread trimming timing (-10 to +10) 

6: Jump conversion (0 to 9 stitches) 

7: Auto jump (OFF/ 4.0 to 9.9 mm) 

8: Frame drive timing (AUTO/250°) 

9: The number of inchings at start (2 to 9 times) 

A: Tie stitching (So: "To perform" when starting embroidery/S:-)

"Not to perform" when starting embroidery) 

B: Satin stitch (-: Without correction, 1 to 5: 0.1 mm unit) 

C: Communication speed (9600/19200/38400) 

D: Network (ON/OFF) 

* * MACHINE SETTING *

1. SCREEN → ST 2. THREAD SNS → 2 3. PRESET HLT → [SET]

***** PRESET HLT *****

COUNTER → 1278 ST → a
PRESET → 30000 ST → b

** MACHINE SETTING *

4. TRIM LENG → 1 → 4
5. TRIM TMNG → + 0 → 5
6. JUMP CONV → 3 ST → 6

** MACHINE SETTING 7

7. AUTO JUMP → OFF
8. A/S TMNG → AUTO → 8
9. INCHING → 2 → 9

** MACHINE SETTING A

A. TIE SET → So EO
B. SATIN ADJ → OFF → B
C. COM SPEED → 9600 → C

** MACHINE SETTING D*

D. NETWORK → ON

INSPECTION BEFORE STARTING OPERATION

Perform inspection before starting embroidery.

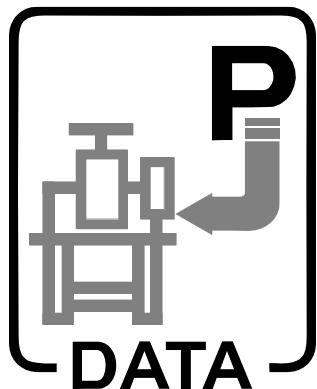
CAUTION

- !** When performing inspection before starting operation, be sure to turn OFF the power switch. If performing inspection with the power turned ON, it may cause injury.

Item to inspect	State	Corrective measures
Covers	Come off	Attach
Thread	Come off	Set
	Broken	
Needle	Bent	Replace
	Broken	
Rail section of rotary hook	Proper quantity of oil is not adhered.	Lubricate

5. DATA SET MENU

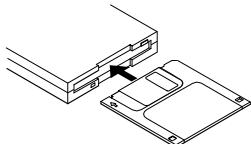
INPUT DATA (Floppy Disk)	5-2
INPUT DATA (Serial Connection).....	5-4
SELECT DATA	5-6
DELETE DATA	5-7
MEMORY MODE	5-8
INITIAL MEMORY	5-9



INPUT DATA (Floppy Disk)

Input design data from floppy disk. Data of the input design is set.

1. Insert the floppy disk.



2. Switch the screen to “DATA MENU”.

```
***** EMB START ****
TAJIMA12.DST   ♦1
0 / 1027
01/15:123-456789A<D>
```



Needle No.	1	...	9	10	11	12	13	14	15
Display	1	...	9	A	B	C	D	E	F

3. Select “FD”.

```
***** DATA MENU ****
1.INPUT DATA → PC
2.SELECT DATA
3.DELETE DATA
```



The black square that blinks on the screen is the item to be selected.

```
1.INPUT DATA → PC
```

4. Read the floppy disk. f

```
***** DATA MENU ****
1.INPUT DATA → FD
2.SELECT DATA
3.DELETE DATA
```



When the machine is reading design data in the floppy disk, the message shown below will be displayed.

```
FILE SEARCHING
```

5. Select the design data.

```
***** SELECT FILE ****
01/23 → BIRD.TBF
STITCH→ 10713 ST
MEMORY→ 180876 ST
```



When inputting “*.TBF” data, data set will be performed after pressing [SET].

```
***** EMB START ****
BELL.TBF   ♦1
0 / 2451
01/04:A6B3 <D>
```

6. Input.

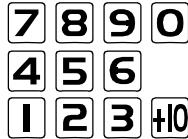
```
*** SELECT FILE ***
09/23 → BELL.DST
STITCH→ 2451 ST
MEMORY→ 180876 ST
```



If no setting for “Color change” in the input design data, set needle numbers to needle bar steps. Regarding how to set needle bars, refer to p.6-4.

7. Set needle bar steps.

```
*** COLOR CHANGE ***
MODE → AUTO
01/04:
```



8. Set.

*** COLOR CHANGE ***
MODE → AUTO
01/04:8C25

**9. Setting is completed.**

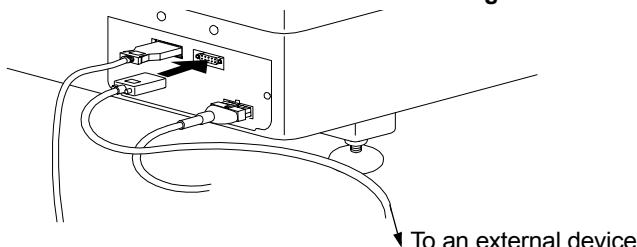
***** EMB START *****
BELL.DST ↑1
0 / 2451
01/04:8C25 <D>

The input design data will be set.

INPUT DATA (Serial Connection)

The descriptions below are explanation for how to input design data from an external device to the machine. The input design data will be set.

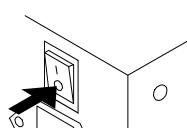
1. Connect an external device with the machine using the serial cable.



When performing serial connection, turn "OFF" the power of the machine and the external device.

When connecting the external device with the machine, use the dedicated cable (option).

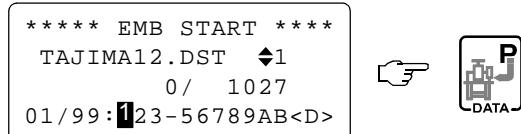
2. Turn "ON" the power of the machine.



When the power of the machine is turned ON, also turn "ON" the power of the external device.

3. Transmit design data from the external device.

4. Switch the screen to "DATA MENU".



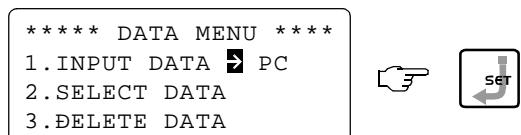
When performing serial connection, turn "OFF" the power of the machine and the external device.

5. Select "PC".



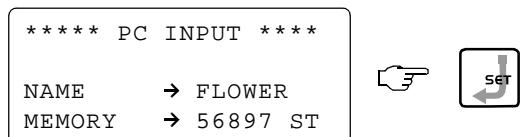
When performing serial connection, turn "OFF" the power of the machine and the external device.

6. Read data from the external device.



When pressing [SET], the design data transmitting from the external device will be displayed.

7. Set.



During data transferring, the lamp of DATA blinks.

8. The data setting is completed.

```
* * * * * EMB START * * * *  
FLOWER.TBF      ◆1  
0 / 56897  
01/12:123456789AB<D>
```

When reading “DST” data, the message will be displayed as shown below after inputting design data..

```
* * * COLOR CHANGE * * *  
MODE → AUTO
```

```
01/12:■
```

When setting color change, refer to p.6-3.

SELECT DATA

Set design data in the memory of the machine.

1. Switch the screen to “DATA MENU”.

```
***** EMB START *****
TAJIMA12.DST   ◆1
      0 / 1027
01/15:123-456789A<D>
```



2. Select “SELECT DATA”.

```
***** DATA MENU *****
1.INPUT DATA → PC
2.SELECT DATA
3.DELETE DATA
```



3. Decide.

```
***** DATA MENU *****
1.INPUT DATA → PC
2.SELECT DATA
3.DELETE DATA
```



4. Select design data.

```
*** SELECT DESIGN ***
01/12 → BIRD.TBF
STITCH→ 10713 ST
MEMORY→ 180876 ST
```



5. Set the data.

```
*** SELECT DESIGN ***
07/12 → FLOWER.TBF
STITCH→ 3972 ST
MEMORY→ 180876 ST
```



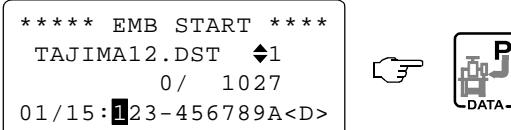
6. Setting is completed.

```
***** EMB START *****
FLOWER.TBF   ◆1
      0 / 3972
01/05:159AB    <D>
```

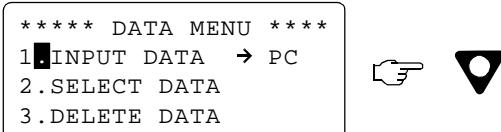
DELETE DATA

Select design data in the memory of the machine to delete.

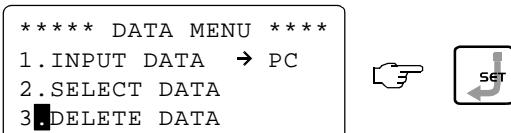
1. Switch the screen to “DATA MENU”.



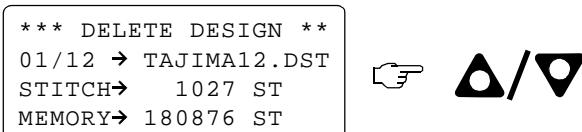
2. Select “DELETE DATA”.



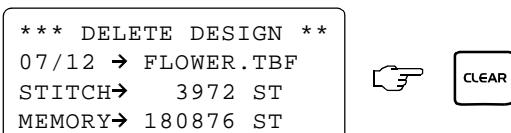
3. Decide.



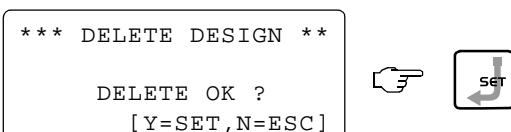
4. Select the design data.



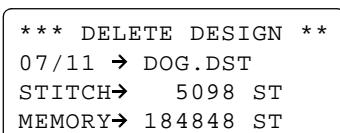
5. Delete.



6. Confirm.



7. Setting is completed.



It is possible to perform deletion continuously after deleting data.

To return the screen to the “EMB START SCREEN”, press “ESC” twice.

MEMORY MODE

This setting decides whether storing the design data in the memory or not when inputting it.

1. Switch the screen to “DATA MENU”.

```
***** EMB START *****
TAJIMA12.DST ◆1
0/ 1027
01/15:123-456789A<D>
```

**2. Select “MEMORY MODE”.**

```
***** DATA MENU *****
1.INPUT DATA → PC
2.SELECT DATA
3.DELETE DATA
```

**3. Decide.**

```
***** DATA MENU *****
2.SELECT DATA
3.DELETE DATA
4.MEMORY MODE
```

**4. Select mode.**

```
*** MEMORY MODE ***
MEMORY → MULTI
```



- MULTI: To store input design data to the memory
- SINGLE: To store one design data to the memory and overwrite by new design data

5. Set.

```
*** MOMORY MODE ***
MEMORY → SINGLE
```



- When setting the memory mode, data setting will be canceled.

6. Setting is completed.

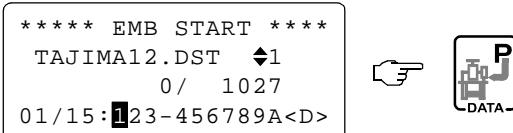
```
***** DATA MENU *****
1.INPUT DATA → PC
2.SELECT DATA
3.DELETE DATA
```

- When “SINGLE” is set, input data from FD/PC.
- To return the screen to “EMB START SCREEN”, press “ESC” twice.

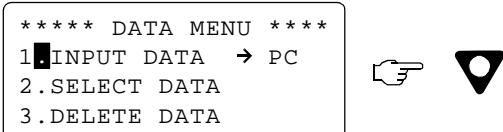
INITIAL MEMORY

This setting erases all design data stored in the memory of the machine.

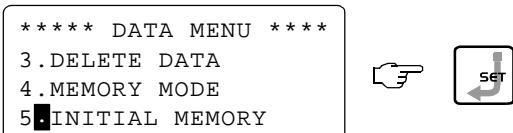
1. Switch the screen to “DATA MENU”.



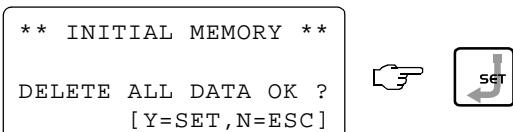
2. Select “INITIAL MEMORY”.



3. Initialize.



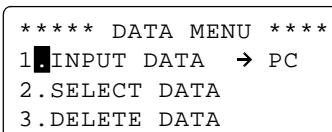
4. Confirm.



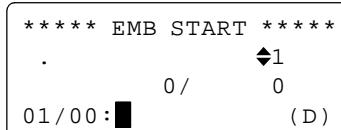
During initializing, the message will be displayed as shown below.

*** INITIALIZING ***

5. Setting is completed.

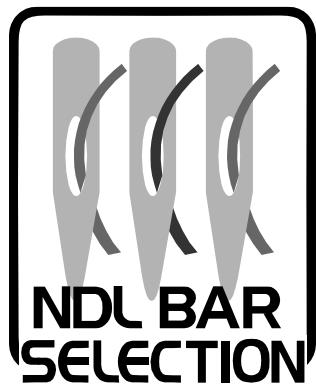


Since all design data has been erased, input data here.
To return the screen to “EMB START SCREEN” without data input, press “ESC”. When data setting is not performed, the screen shown below will be displayed.



6. COLOR CHANGE

MODE SELECT	6-2
NEEDLE BAR SELECT (Step Input)	6-3
NEEDLE BAR SELECT (Step Change)	6-4
TEMPORARY STOP SETTING	6-5



MODE SELECT

Color change is set to automatic/manual.

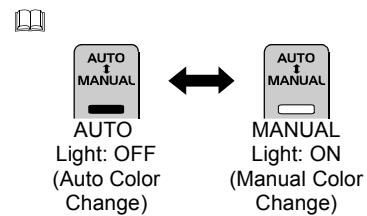
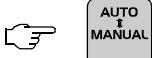
1. Switch the screen to “COLOR CHANGE”.

```
***** EMB START *****
TAJIMA12.DST  ♦1
      0 / 1027
01/15:123456789AB<D>
```



2. Select mode.

```
*** COLOR CHANGE ***
MODE → AUTO
01/15:123456789ABCDE
```



3. Set.

```
*** COLOR CHANGE ***
MODE → MANUAL
01/15: NO.D
```



When setting to “manual”, the needle bar number currently used will be displayed as shown below.

01/15: NO.D

To change needle bar, refer to manual operation, refer to p.6-3.

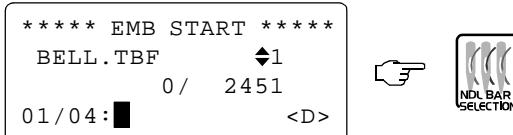
4. Setting is completed.

```
***** EMB START *****
TAJIMA12.DST  ♦1
      0 / 1027
01/15: NO.D
```

NEEDLE BAR SELECT (Step Input)

This setting sets needle bar numbers to needle bar steps.

1. Switch the screen to “COLOR CHANGE”.



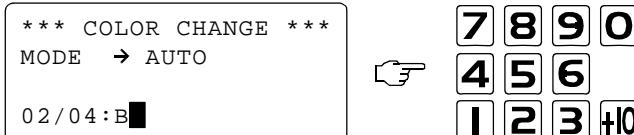
2. Input needle bar number. (Example: Needle bar number 11)



To set other needle bars continuously, repeat operations 2 and 3, then press “SET”.

Needle	1	...	10	11
Operation				
Display	1	...	A	B

3. Input needle bar number to the next step.



Set needle bar numbers to all steps.

4. Set the needle bar setting.



When the number of needle bar numbers to be set is fewer than the number of color change steps, the remaining steps will be automatically compensated.

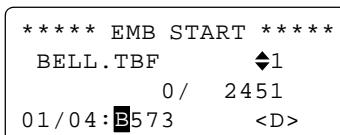
[Example]

When the number of color change steps is 5 and up to two steps for needle bar numbers are set (Needle bar number: 2, 5)

Step	1	2	3	4	5
Needle bar No.	2	5	2	5	2

:Compensated needle bar number

5. Setting is completed.



NEEDLE BAR SELECT (Step Change)

This setting changes needle bar number of needle bar step.

1. Switch the screen to “COLOR CHANGE”.

```
***** EMB START *****
TAJIMA12.DST  ♦1
0 / 1027
01/15:123456789AB<D>
```



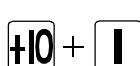
2. Select needle bar step.

```
*** COLOR CHANGE ***
MODE → AUTO
01/15:123456789ABCDE
```



3. Input needle bar number. (Example: Needle bar number 11)

```
*** COLOR CHANGE ***
MODE → AUTO
02/15:123456789ABCDE
```



To set other needle bars continuously, repeat operations 2 and 3, then press “SET”.

Needle	1	...	10	11
Oper-				
Display	1	...	A	B

4. Set.

```
*** COLOR CHANGE ***
MODE → AUTO
03/15:1B3456789ABCDE
```



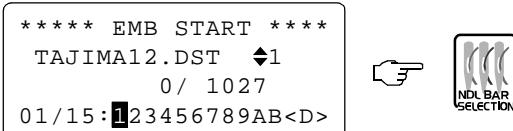
5. Setting is completed.

```
***** EMB START *****
TAJIMA12.DST  ♦1
0 / 1027
01/15:1B3456789AB<D>
```

TEMPORARY STOP SETTING

This setting makes the embroidering stop temporarily when color change is performed.

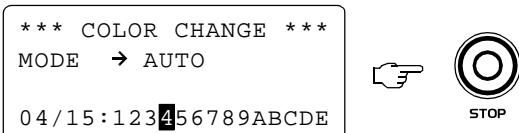
1. Switch the screen to “COLOR CHANGE”.



2. Select needle bar step.

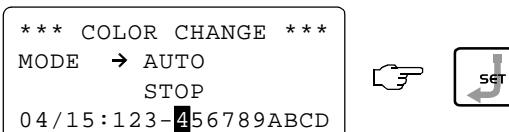


3. Select needle bar. (Example: Temporary stop before needle bar step 4)



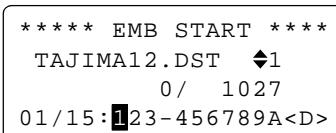
To set other needle bar steps continuously, repeat operations 2 and 3 and then press “SET”.

4. Set.



When setting temporary stop, “-” will be inserted before the set step.

5. Setting is completed.



7. DESIGN EDIT

ROTATE.....	7-2
MIRROR	7-3
REPEAT.....	7-4



ROTATE

This setting rotates design of which data has been set.

1. Switch the screen to “DESIGN EDIT”.

```
***** EMB START *****
TAJIMA12.DST  ♦1
      0 / 1027
01/15:123456789AB<D>
```



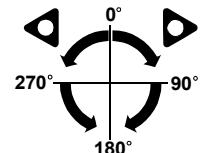
For details, refer to p.11-2.

2. Select angle.

```
***** DESIGN EDIT *****
1.ROTATE    →  0°
2.MIRROR    →  OFF
3.REPEAT    →  [SET]
```

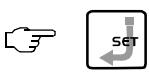


Design rotates in 90° unit.



3. Set.

```
***** DESIGN EDIT *****
1.ROTATE    →  180°
2.MIRROR    →  OFF
3.REPEAT    →  [SET]
```



To perform design edit continuously, perform “MIRROR, REPEAT” operation without pressing “SET”.

4. Setting is completed.

```
***** EMB START *****
TAJIMA12.DST  ♦1
      0 / 1027
01/15:123456789AB<D>
```

MIRROR

This setting reverses the design of which data has been set as a mirror image.

1. Switch the screen to “DESIGN EDIT”.

```
***** EMB START *****
TAJIMA12.DST ◆1
0 / 1027
01/15:123456789AB<D>
```



For details, refer to p.11-2.

2. Select mirror.

```
***** DESIGN EDIT *****
1.ROTATE → 0°
2.MIRROR → OFF
3.REPEAT → [SET]
```

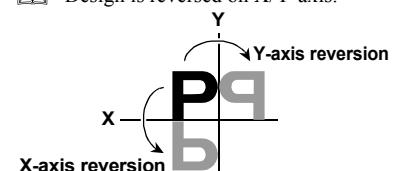


3. Select reversing direction.

```
***** DESIGN EDIT *****
1.ROTATE → 0°
2.MIRROR → OFF
3.REPEAT → [SET]
```



Design is reversed on X/Y-axis.



4. Set.

```
***** DESIGN EDIT *****
1.ROTATE → 0°
2.MIRROR → Y
3.REPEAT → [SET]
```



To perform design edit continuously, perform “ROTATE, REPEAT” operation without pressing “SET”.

5. Setting is completed.

```
***** EMB START *****
TAJIMA12.DST ◆1
0 / 1027
01/15:123456789AB<D>
```

REPEAT

This setting arranges design of which data has been set repeatedly.

1. Switch the screen to “DESIGN EDIT”.

```
***** EMB START *****
TAJIMA12.DST  ↴1
    0 / 1027
01/15:123456789AB<D>
```



For details, refer to p.11-3.

2. Select repeat.

```
***** DESIGN EDIT *****
1.ROTATE   →  0°
2.MIRROR   →  OFF
3.REPEAT   →  [SET]
```



3. Decide.

```
***** DESIGN EDIT *****
1.ROTATE   →  0°
2.MIRROR   →  OFF
3.REPEAT   →  [SET]
```



4. Set direction.

```
** REPEAT SETTING **
DIR      ↴ HORIZONTAL
TIMES   → 01
SPACE   →  0 mm
```



Direction: Horizontal (X)/Vertical (Y)

5. Select the number of times of repeat.

```
** REPEAT SETTING **
DIR      → VERTICAL
TIMES   → 01
SPACE   →  0 mm
```



6. Set the number of times of repeat.

```
** REPEAT SETTING **
DIR      → VERTICAL
TIMES   → 01
SPACE   →  0 mm
```



The number of times of repeat: 01 to 99

7. Select space.

```
** REPEAT SETTING **
DIR      → VERTICAL
TIMES   → 04
SPACE   →  0 mm
```



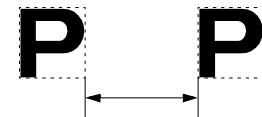
8. Set space.

```
** REPEAT SETTING **
DIR → VERTICAL
TIMES → 04
SPACE → 0 mm
```



Space: 0 to 255 mm

Space means an interval between a design and the next design.

**9. Decide.**

```
** REPEAT SETTING **
DIR → VERTICAL
TIMES → 04
SPACE → 88 mm
```



To perform design edit continuously, perform "ROTATE, MIRROR" operation without pressing "SET".

10. Set.

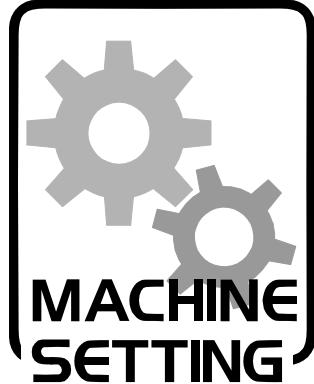
```
***** DESIGN EDIT *****
1.ROTATE → 0°
2.MIRROR → OFF
3.REPEAT → [SET]
```

**11. Setting is completed.**

```
***** EMB START *****
TAJIMA12.DST ♦1
0 / 1027
01/15:123456789AB<D>
```


8. MACHINE SETTING

SCREEN.....	8-2
THREAD SENSOR (Thread Breakage Detection).....	8-3
PRESET HALT (Setting)	8-4
PRESET HALT (Counter).....	8-5
TRIM LENGTH	8-6
TRIM TIMING	8-7
JUMP CONVERT	8-8
AUTO JUMP.....	8-9
A/S TIMING (Frame Travel Start Timing).....	8-10
INCHING (Start Inchng Times).....	8-11
TIE SET (Tie Stitching)	8-12
SATIN ADJUST.....	8-13
COM SPEED	8-14
NETWORK	8-15



SCREEN

This setting displays the number of stitches/rpm^[*1] during embroidery.

1. Switch the screen to “MACHINE SETTING”.

```
***** EMB START ****
TAJIMA12.DST ◆1
0 / 1027
01/15:123456789AB<D>
```



2. Select display mode.

```
** MACHINE SETTING *
1 SCREEN → ST
2 THREAD SNS→ 2
3.PRESET HLT→ [SET]
```



 SCREEN: ST/rpm

The number of total stitches of design
of which data has been set

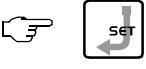
6 / 1027

RPM during running of
the machine

6 / 240 rpm

3. Set.

```
** MACHINE SETTING *
1 SCREEN → rpm
2 THREAD SNS→ 2
3.PRESET HLT→ [SET]
```



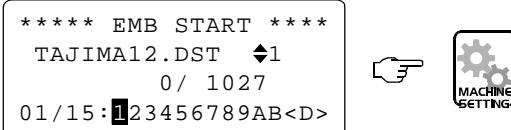
4. Setting is completed.

```
***** EMB START ****
TAJIMA12.DST ◆1
0 / 1027
01/15:123456789AB<D>
```

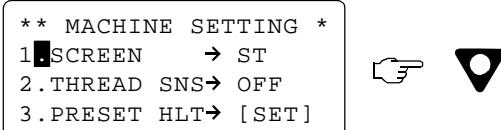
THREAD SENSOR (Thread Breakage Detection)

This is the setting for thread breakage detection.

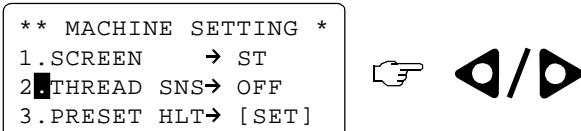
1. Switch the screen to “MACHINE SETTING”.



2. Select thread breakage sensor.

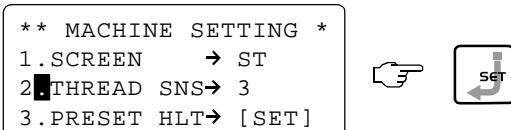


3. Select setting value.

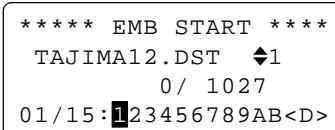


- Setting value: OFF, 1, 2, 3, 4, 5
 - OFF: Not to detect thread breakage
 - 1 to 5: To detect thread breakage by set number of stitches
- * The smaller the value, the higher the sensitivity.

4. Set.



5. Setting is completed.



PRESET HALT (Setting)

This setting makes the machine halt automatically when the number of stitches reaches the set value.

1. Switch the screen to “MACHINE SETTING”.

```
***** EMB START *****
TAJIMA12.DST ◆1
0 / 1027
01/15:123456789AB<D>
```



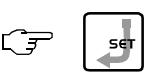
2. Select preset halt.

```
** MACHINE SETTING *
1. SCREEN → ST
2. THREAD SNS→ 2
3.PRESET HLT→ [SET]
```



3. Decide.

```
** MACHINE SETTING *
1. SCREEN → ST
2. THREAD SNS→ 2
3.PRESET HLT→ [SET]
```



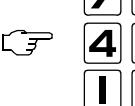
4. Select setting.

```
***** PRESET HLT *****
COUNTER█ 0 ST
PRESET → 0 ST
```



5. Input setting value.

```
***** PRESET HLT *****
COUNTER→ 0 ST
PRESET → 0 ST
```



To correct the setting value, press “CLEAR” to input value again.

6. Set.

```
***** PRESET HLT *****
COUNTER→ 0 ST
PRESET → 30000 °>
```



When the machine is stopped by preset halt, the warning buzzer will sound and the message as shown below will be displayed.

```
***** EMB PAUSE *****
PRESET HLT
(1D2)
```

Press the stop switch to release the preset halt, and perform necessary works.

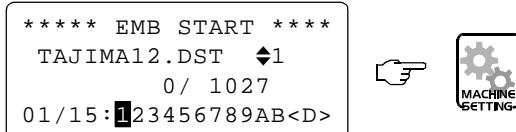
7. Setting is completed.

```
***** EMB START *****
TAJIMA12.DST ◆1
0 / 1027
01/15:123456789AB<D>
```

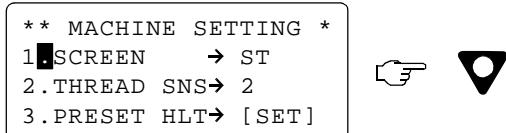
PRESET HALT (Counter)

This setting clears the accumulated number of stitches [*1] of embroideries that have been done.

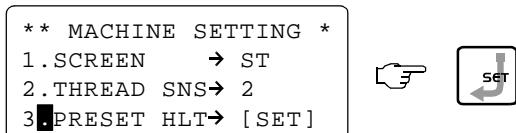
1. Switch the screen to “MACHINE SETTING”.



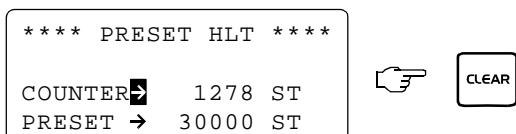
2. Select preset halt.



3. Decide.

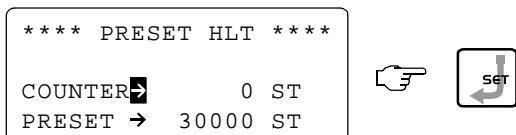


4. Clear.

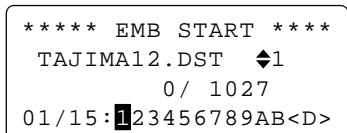


To clear the setting value for preset, select “PRESET” and press “CLEAR” with the same manner as the previous page.

5. Set.



6. Setting is completed.



TRIM LENGTH

This setting sets the length of remaining thread when thread trimming is performed.

1. Switch the screen to “MACHINE SETTING”.

```
***** EMB START *****
TAJIMA12.DST ♦1
0 / 1027
01/15 : 123456789AB<D>
```



2. Switch items to be displayed.

```
** MACHINE SETTING *
1. SCREEN → ST
2. THREAD SNS → 2
3. PRESET HLT → [SET]
```



3. Select setting value.

```
** MACHINE SETTING *
4. TRIM LENG → 1
5. TRIM TMNG → + 0
6. JUMP CONV → 3 ST
```

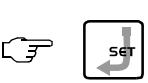


 Setting value: 1 to 16

Short
1 ← ——————→ Long
17

4. Set.

```
** MACHINE SETTING *
4. TRIM LENG → 8
5. TRIM TMNG → + 0
6. JUMP CONV → 3 ST
```



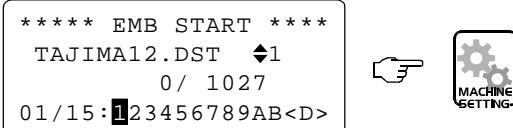
5. Setting is completed.

```
***** EMB START *****
TAJIMA12.DST ♦1
0 / 1027
01/15 : 123456789AB<D>
```

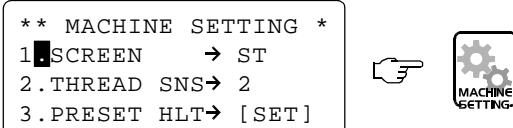
TRIM TIMING

This setting sets timing to start thread trimming.

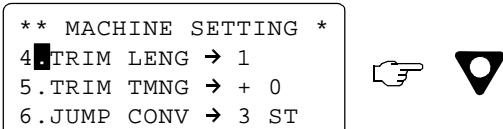
1. Switch the screen to “MACHINE SETTING”.



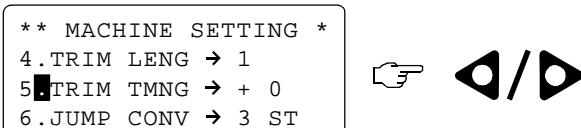
2. Switch items to be displayed.



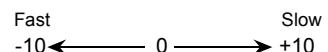
3. Select thread trimming timing.



4. Select setting value.

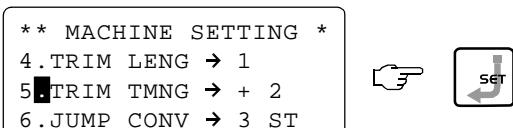


Setting value: -10 to -1, 0, +1 to +10

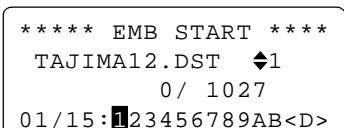


Perform adjustment according to thread trimming condition and thread to be used.

5. Set



6. Setting is completed.



JUMP CONVERT

This setting converts consecutive jump stitches into frame stepping^[*1].

1. Switch the screen to “MACHINE SETTING”.

```
***** EMB START ****
TAJIMA12.DST ◆1
0 / 1027
01/15:123456789AB<D>
```



2. Switch items to be displayed.

```
** MACHINE SETTING *
1. SCREEN → ST
2. THREAD SNS → 2
3. PRESET HLT → [SET]
```



3. Select jump conversion.

```
** MACHINE SETTING *
4. TRIM LENG → 1
5. TRIM TMNG → + 0
6. JUMP CONV → 3 ST
```



4. Select setting value.

```
** MACHINE SETTING *
4. TRIM LENG → 1
5. TRIM TMNG → + 0
6. JUMP CONV → 3 ST
```



- Setting value: 0, 1, 2, to 8, 9
0: Not to convert

5. Set.

```
** MACHINE SETTING *
4. TRIM LENG → 1
5. TRIM TMNG → + 0
6. JUMP CONV → 5 ST
```



- When the number of consecutive jump codes reaches the setting value, it will be converted to frame stepping.

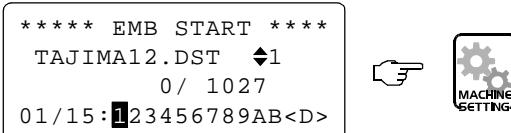
6. Setting is completed.

```
***** EMB START ****
TAJIMA12.DST ◆1
0 / 1027
01/15:123456789AB<D>
```

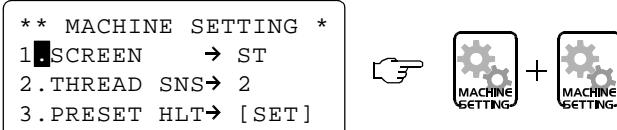
AUTO JUMP

This setting converts longer stitches than the setting value to auto jump.

1. Switch the screen to “MACHINE SETTING”.



2. Switch items to be displayed.



3. Select setting value.



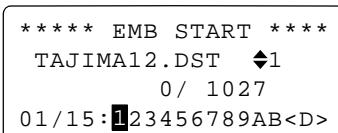
Setting value: OFF, 4.0 to 9.9 (mm)
OFF: Not to convert

Keeping </> pressed changes value quickly.

4. Set.



5. Setting is completed.



A/S TIMING (Frame Travel Start Timing)

This setting sets timing [*1] to start the embroidery frame drive.

1. Switch the screen to “MACHINE SETTING”.

```
***** EMB START *****
TAJIMA12.DST  ♦1
0 / 1027
01/15:123456789AB<D>
```



2. Switch items to be displayed.

```
** MACHINE SETTING *
1. SCREEN → ST
2. THREAD SNS → 2
3. PRESET HLT → [SET]
```



3. Select A/S timing.

```
** MACHINE SETTING *
7. AUTO JUMP → OFF
8. A/S TMNG → AUTO
9. INCHING → 2 ST
```



4. Select setting value.

```
** MACHINE SETTING *
7. AUTO JUMP → OFF
8. A/S TMNG → AUTO
9. INCHING → 2 ST
```



- Setting value: AUTO, 250°
AUTO: Automatic adjustment
250° : Frame drive with the same timing

- When setting to 250°, good thread tightening will be obtained in general, but the machine will be burdened.

5. Set.

```
** MACHINE SETTING *
7. AUTO JUMP → OFF
8. A/S TMNG → 250°
9. INCHING → 2 ST
```



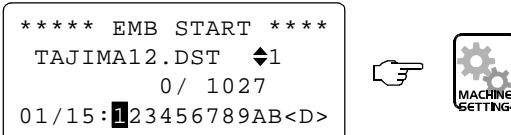
6. Setting is completed.

```
***** EMB START *****
TAJIMA12.DST  ♦1
0 / 1027
01/15:123456789AB<D>
```

INCHING (Start Inchng Times)

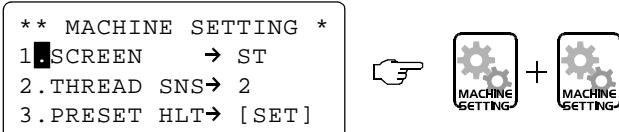
This setting sets the number of inching times after thread trimming.

1. Switch the screen to “MACHINE SETTING”.



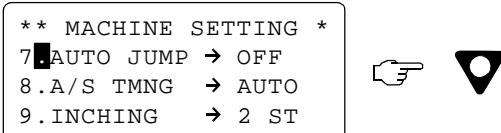
When starting the machine manually after stopping the machine manually, the machine will not perform inching.

2. Switch items to be displayed.



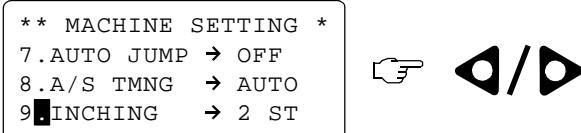
When starting the machine manually after stopping the machine manually, the machine will not perform inching.

3. Select the number of inching times.



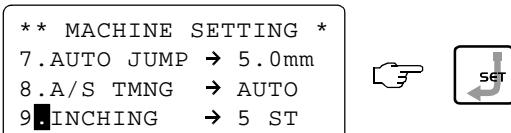
When starting the machine manually after stopping the machine manually, the machine will not perform inching.

4. Select setting value.



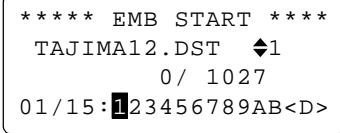
Setting value: 2, 3 to 8, 9

5. Set.



When starting the machine manually after stopping the machine manually, the machine will not perform inching.

6. Setting is completed.



TIE SET (Tie Stitching)

This is the setting for tie stitching when starting and/or ending embroidery.

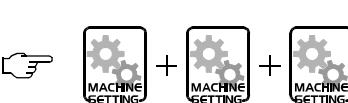
1. Switch the screen to “MACHINE SETTING”.

```
***** EMB START *****
TAJIMA12.DST  ♦1
0 / 1027
01/15:123456789AB<D>
```



2. Switch items to be displayed.

```
** MACHINE SETTING *
1. SCREEN → ST
2. THREAD SNS → 2
3. PRESET HLT → [SET]
```



3. Select setting value.

```
** MACHINE SETTING *
A.TIE SET → So Eo
B.SATIN ADJ → OFF
C.COM SPEED → 9600
```



  : So / S-

 : Eo / E-

So: Tie stitching is applied to start of embroidery.

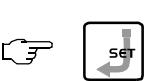
Eo: Tie stitching is applied to end of embroidery.

S-, E-: No tie stitching is applied.

 When tie stitching is applied, the machine will reciprocate for one stitch.

4. Set.

```
** MACHINE SETTING *
A.TIE SET → S- Eo
B.SATIN ADJ → OFF
C.COM SPEED → 9600
```



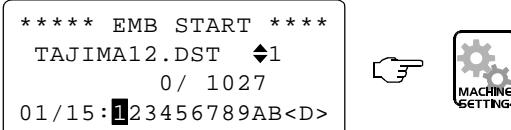
5. Setting is completed.

```
***** EMB START *****
TAJIMA12.DST  ♦1
0 / 1027
01/15:123456789AB<D>
```

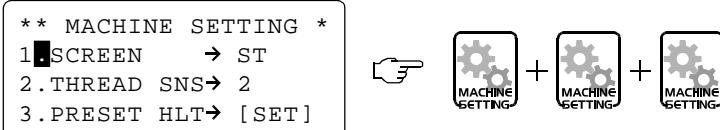
SATIN ADJUST

This setting adjusts satin stitch length.

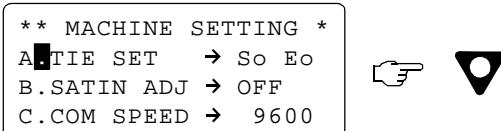
1. Switch the screen to “MACHINE SETTING”.



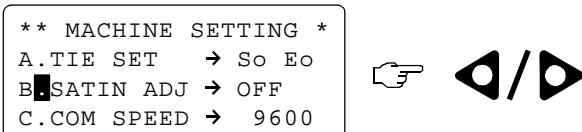
2. Switch items to be displayed.



3. Select satin adjust.



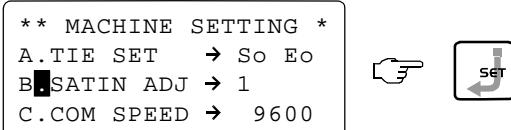
4. Select setting value.



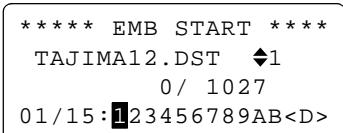
- Setting value: OFF, 1, 2, 3, 4, 5
OFF: No satin adjustment
1 to 5: 0.1 to 0.5 mm

- The adjusting value will be added to both sides of a stitch.

5. Set.



6. Setting is completed.



COM SPEED

This is the setting for transmitting speed (bps) by serial connection.

1. Switch the screen to “MACHINE SETTING”.

```
***** EMB START *****
TAJIMA12.DST ♦1
0 / 1027
01/15:123456789AB<D>
```



2. Switch items to be displayed.

```
** MACHINE SETTING *
1. SCREEN → ST
2. THREAD SNS → 2
3. PRESET HLT → [SET]
```



3. Select setting value.

```
** MACHINE SETTING *
A.TIE SET → So Eo
B.SATIN ADJ → OFF
C.COM SPEED → 9600
```



 Setting value: 9600, 19200, 38400
Set the value according to the communication speed of the transmitting device.

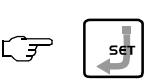
4. Select setting value.

```
** MACHINE SETTING *
A.TIE SET → So Eo
B.SATIN ADJ → OFF
C.COM SPEED → 9600
```



5. Set.

```
** MACHINE SETTING *
A.TIE SET → So Eo
B.SATIN ADJ → OFF
C.COM SPEED → 19200
```



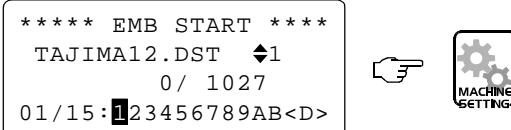
6. Setting is completed.

```
***** EMB START *****
TAJIMA12.DST ♦1
0 / 1027
01/15:123456789AB<D>
```

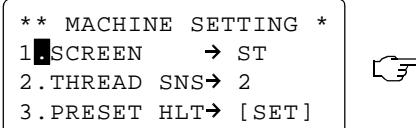
NETWORK

This is the setting for network connection.

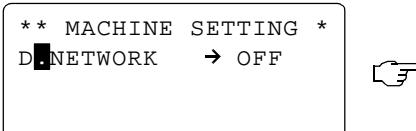
1. Switch the screen to “MACHINE SETTING”.



2. Switch items to be displayed.

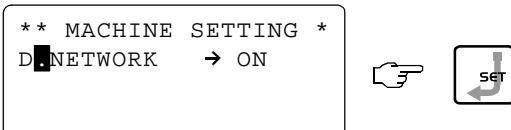


3. Select connection.

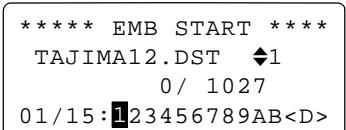


OFF: Not to connect
ON: To connect

4. Set.

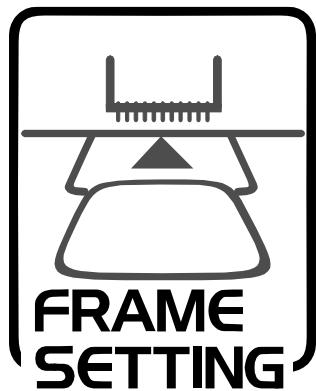


5. Setting is completed.



9. FRAME SETTING

MANUAL SPEED	9-2
OFFSET.....	9-3
START POINT (Origin Return).....	9-4
FRAME MODE	9-5
INITIAL	9-6

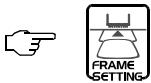


MANUAL SPEED

This setting sets speed when frame travel is performed manually.

1. Switch the screen to “FRAME SETTING”.

```
***** EMB START *****
TAJIMA12.DST  ♦1
      0 / 1027
01/15:123456789AB<D>
```



2. Select setting value.

```
*** FRAME SETTING ***
1.MANUAL SPD→ 1
2.OFFSET      → MANUAL
3.START PNT   → MANUAL
```



 Setting value: 1, 2, 3

1	2	3
High speed	Middle speed	Low speed

3. Set.

```
*** FRAME SETTING ***
1.MANUAL SPD→ 3
2.OFFSET      → MANUAL
3.START PNT   → MANUAL
```



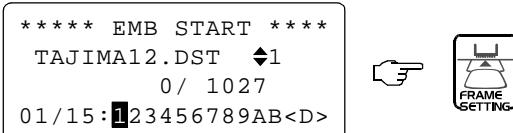
4. Setting is completed.

```
***** EMB START *****
TAJIMA12.DST  ♦1
      0 / 1027
01/15:123456789AB<D>
```

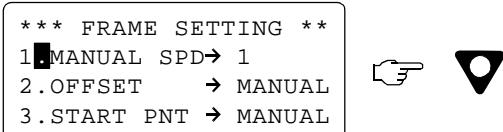
OFFSET

This setting makes the frame move automatically/manually when offset is performed.

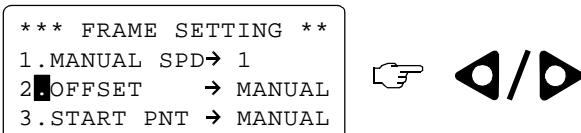
1. Switch the screen to “FRAME SETTING”.



2. Select offset.

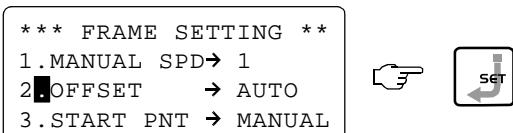


3. Select setting value.

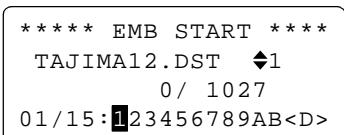


- Setting value: AUTO/MANUAL
 - AUTO: The frame will move to the set position when embroidery is finished.
 - MANUAL: The frame will not move automatically.

4. Set.



5. Setting is completed.



START POINT (Origin Return)

This setting makes the frame to the design start position when embroidery is finished.

1. Switch the screen to “FRAME SETTING”.

```
***** EMB START *****
TAJIMA12.DST  ♦1
0 / 1027
01/15:123456789AB<D>
```



2. Select start point (origin return).

```
*** FRAME SETTING ***
1.MANUAL SPD→ 1
2.OFFSET      → MANUAL
3.START PNT   → MANUAL
```



3. Select setting value.

```
*** FRAME SETTING ***
1.MANUAL SPD→ 1
2.OFFSET      → MANUAL
3.START PNT   → MANUAL
```



Setting value: AUTO/MANUAL
AUTO: The frame will move to the design start position when embroidery is finished.
MANUAL: The frame will not move.

4. Set.

```
*** FRAME SETTING ***
1.MANUAL SPD→ 1
2.OFFSET      → MANUAL
3.START PNT   → AUTO
```



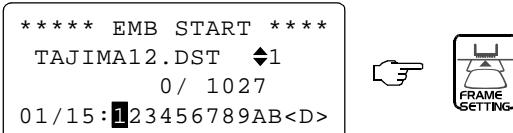
5. Setting is completed.

```
***** EMB START *****
TAJIMA12.DST  ♦1
0 / 1027
01/15:123456789AB<D>
```

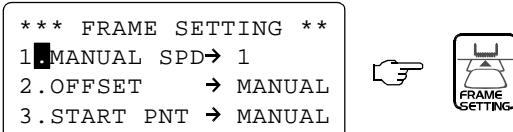
FRAME MODE

This setting sets the embroidery frame to flat frame/cap frame.

1. Switch the screen to “FRAME SETTING”.



2. Switch items to be displayed.

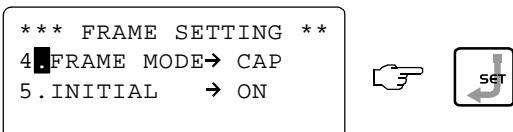


3. Select frame type.

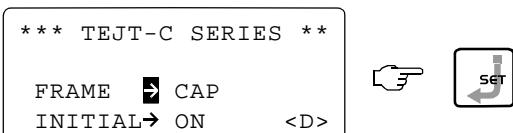


Setting value: FLAT, CAP, CYLNDR

4. Set.



5. Setting is completed.



When setting the frame mode, the screen will return to the initial screen. Pressing “SET” will cause the screen to become “EMB START” screen.

INITIAL

This setting sets origin return movements when the power switch is turned “ON”.

1. Switch the screen to “FRAME SETTING”.

```
***** EMB START *****
TAJIMA12.DST  ↴1
0 / 1027
01/15:123456789AB<D>
```

**2. Switch items to be displayed.**

```
*** FRAME SETTING ***
1.MANUAL SPD→ 1
2.OFFSET      → MANUAL
3.START PNT   → MANUAL
```

**3. Select initial.**

```
*** FRAME SETTING ***
4.FRAME MODE→ FLAT
5.INITIAL    → OFF
```

**4. Select setting value.**

```
*** FRAME SETTING ***
4.FRAME MODE→ FLAT
5.INITIAL    → OFF
```



Setting value: ON/OFF
ON: Set the setting value of “INITIAL” on the start screen to “ON”.
OFF: Set to “OFF”

5. Set.

```
*** FRAME SETTING ***
4.FRAME MODE→ FLAT
5.INITIAL    → ON
```

**6. Setting is completed.**

```
*** TEJT-C SERIES ***
FRAME  → FLAT
INITIAL→ ON    <D>
```

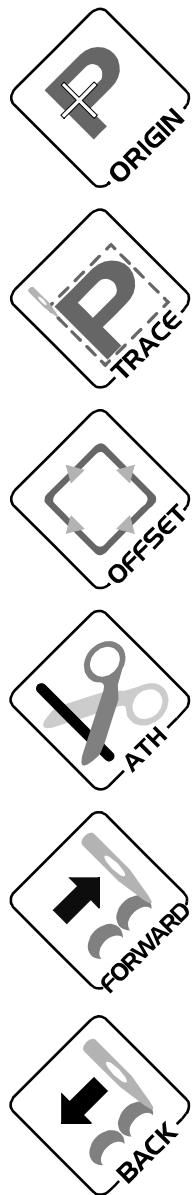


When changing “INITIAL” to set to “ON”, the screen will return to the initial screen.
Pressing “SET” will cause the screen to become “EMB START” screen.

10. MANUAL OPERATION

COLOR CHANGE	10-2
ORIGIN RETURN	10-3
TRACE.....	10-4
OFFSET (Start Point)	10-5
OFFSET (Frame Travel)	10-6
ATH	10-7
FRAME BACK / FORWARD (Feed Unit).....	10-8
FRAME BACK/FORWARD (n-Stitch Feed)	10-9
FRAME FORWARD.....	10-10
FRAME BACK.....	10-11

MANUAL



COLOR CHANGE

This operation slides the needle bar case to perform color change.

CAUTION

 When performing this operation, do not put your hands, etc. under the needle or on the machine table. You may be injured by the needle or the moving frame.

1. Switch to manual color change.

```
***** EMB START *****
TAJIMA12.DST  ♦1
      0 / 1027
01/15: 123456789AB<D>
```



 When changing automatic color change to manual color change, the lamp will turn ON.



2. Select needle bar.

```
***** EMB START *****
TAJIMA12.DST  ♦1
      0 / 1027
01/15: NO.D
```



 When pressing the key once, the needle bar case will slide by one needle bar.



3. Manual color change is completed.

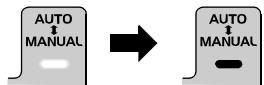
```
***** EMB START *****
TAJIMA12.DST  ♦1
      0 / 1027
01/15: NO.5
```

Return manual → automatic.

```
***** EMB START *****
TAJIMA12.DST  ♦1
      0 / 1027
01/15: NO.5
```



 When switching manual color change to automatic color change, the lamp will turn OFF.



ORIGIN RETURN

This operation makes the embroidery frame return to the design start position.

⚠ CAUTION

🚫 When performing this operation, do not put your hands, etc. under the needle or on the machine table. You may be injured by the needle or the moving frame.

1. Select origin return.

```
***** EMB PAUSE *****
TAJIMA12.DST ◆1
       63 / 1027
01/15:123456789AB<D>
```



2. Confirm.

```
***** EMB PAUSE *****
CANCEL EMB ?
[Y=SET, N=ESC]
```



- 📖 When performing origin return during embroidery, it will be impossible to continue the embroidery.
- 📖 When pressing “SET”, the frame will move to the position of the origin.

3. Origin return is completed.

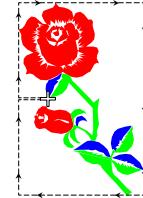
```
***** EMB START *****
TAJIMA12.DST ◆1
       0 / 1027
01/15:123456789AB<D>
```

TRACE

This operation makes the embroidery frame move along the embroidery space (maximum size of X and Y directions) of design data.

CAUTION

 When performing this operation, do not put your hands, etc. under the needle or on the machine table. You may be injured by the needle or the moving frame.



1. Select trace.

```
***** EMB START *****
TAJIMA12.DST ◆1
0 / 1027
01/15 : 123456789AB<D>
```



 For details of trace, refer to p.11-7.

 It is not possible to perform trace during embroidery.

OFFSET (Start Point)

This setting sets an offset position.

CAUTION

 When performing this operation, do not put your hands, etc. under the needle or on the machine table. You may be injured by the needle or the moving frame.

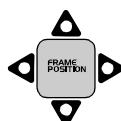
1. Select offset.

```
***** EMB START *****
TAJIMA12.DST ◆1
      0 / 1027
01/15:123456789AB<D>
```



2. Set offset position.

```
** OFFSET SETTING **
Dx → + 0.0 (+ 0.0)
Dy → + 0.0 (+ 0.0)
```



 Use the frame travel key to set the offset position. Frame travel position is displayed with coordinate values.

3. Set.

```
** OFFSET SETTING **
Dx → + 27.1 (+ 0.0)
Dy → - 56.4 (+ 0.0)
```



 When pressing “SET”, the set position will be registered to the machine, and this position will be applied to all design data.

4. Setting is completed.

```
** OFFSET SETTING **
Dx → + 27.1 (+ 27.1)
Dy → - 56.4 (- 56.4)
```

 When setting offset of frame setting to auto, the frame will move to the offset position after completion of embroidery. At this moment, the screen shown left will be displayed. The screen shows that the machine stops at the offset position.

Return to the original position.

```
** OFFSET SETTING **
Dx → + 27.1 (+ 27.1)
Dy → - 56.4 (- 56.4)
```



 When pressing the offset key, the frame will return to the previous position before frame travel.

OFFSET (Frame Travel)

This operation move the frame to offset position/the current position.

⚠ CAUTION

🚫 When performing this operation, do not put your hands, etc. under the needle or on the machine table. You may be injured by the needle or the moving frame.

1. Select offset.

```
***** EMB PAUSE *****
TAJIMA12.DST   ♦1
      0 / 1027
01/15:123456789AB<D>
```



📖 When pressing the offset key, the frame will move to the registered offset position.

Return to the original position.

```
** OFFSET SETTING **
Dx → + 27.1 (+ 27.1)
Dy → - 56.4 (- 56.4)
```



📖 When pressing the offset key, the frame will return to the previous position before frame travel.

```
***** EMB PAUSE *****
TAJIMA12.DST   ♦1
      75 / 1027
01/15:123456789AB<D>
```

ATH

This operation performs thread trimming.

⚠ CAUTION

🚫 When performing this operation, do not put your hands, etc. under the needle or on the machine table. You may be injured by the needle or the moving frame.

1. Select ATH (thread trimming).

***** EMB PAUSE *****
TAJIMA12.DST ◀1
0 / 1027
01/15 :123456789AB<D>



📖 When selecting ATH, the main shaft will rotate. When tie stitching (p.8-12) is set, the machine will embroider for one stitch to perform thread trimming.

FRAME BACK / FORWARD (Feed Unit)

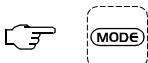
This operation performs frame back/forward by set feed unit.

⚠ CAUTION

🚫 When performing this operation, do not put your hands, etc. under the needle or on the machine table. You may be injured by the needle or the moving frame.

1. Select mode. (Color change unit)

```
***** EMB PAUSE *****
TAJIMA12.DST  ♦1
    0 / 1027
01/15 : 123456789AB<D>
```



- Setting value: 1, 10, 100, c, n stitch
- 1: 1 stitch unit
- 10: 10 stitch unit
- 100: 100 stitch unit
- c: Color change unit
- n: Stitch position by ten key (numeral key) input

2. Perform frame forward by color change unit.

```
***** EMB PAUSE *****
TAJIMA12.DST  ♦100
    0 / 1027
01/15 : 123456789AB<D>
```



- When pressing "FORWARD", frame travel will be performed to the stitch position of color change. Every pressing the key will perform frame forward to the next color change position.

3. Frame forward is completed.

```
***** EMB PAUSE *****
TAJIMA12.DST  ♦1
    100 / 1027
01/15 : 123456789AB<D>
```

FRAME BACK/FORWARD (n-Stitch Feed)

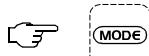
This operation performs frame back/forward to input stitch position.

CAUTION

 When performing this operation, do not put your hands, etc. under the needle or on the machine table. You may be injured by the needle or the moving frame.

1. Select mode. (n-stitch)

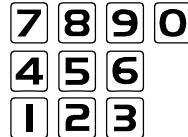
```
***** EMB PAUSE *****
TAJIMA12.DST  ◆C
      655 / 19428
01/15:123456789AB<D>
```



-  Setting value: 1, 10, 100, c, n stitch
- 1: 1 stitch unit
- 10: 10 stitch unit
- 100: 100 stitch unit
- c: Color change unit
- n: Stitch position by ten key (numeral key) input

2. Input the number of stitches.

```
***** EMB PAUSE *****
TAJIMA12.DST  ◆n ST
      655 / 19428
01/15:123456789AB<D>
```



-  When the input number of stitches is larger than the current number of stitches, frame forward will be performed. When it is smaller than the current number of stitches, frame back will be performed.

3. Frame travel to the stitch position

```
*** FORWARD/BACK ***
TAJIMA12.DST  ◆n ST
      * 3856 / 19428
01/15:123456789AB<D>
```



-  When pressing "SET", frame forward (frame travel) will be performed to the input stitch position.

4. Frame travel is completed.

```
***** EMB PAUSE *****
TAJIMA12.DST  ◆n ST
      3856 / 19428
01/15:123456789AB<D>
```

FRAME FORWARD

This operation performs frame forward.

⚠ CAUTION

🚫 When performing this operation, do not put your hands, etc. under the needle or on the machine table. You may be injured by the needle or the moving frame.

1. Select forward.

```
***** EMB START *****
TAJIMA12.DST ♦1
0 / 1027
01/15:123456789AB<D>
```



📘 When 1 stitch unit is set, pressing "FORWARD" once will perform frame forward for one stitch.

2. Keep on pressing the forward key.

```
***** EMB PAUSE *****
TAJIMA12.DST ♦1
2 / 1027
01/15:123456789AB<D>
```



📘 When keeping on pressing the forward key for one or more seconds, frame travel by frame forward will be performed even if the forward key is released.
To stop the machine, press the stop switch.

3. The machine stops at color change position.

```
***** EMB PAUSE *****
TAJIMA12.DST ♦1
655 / 1027
01/15:123456789AB<D>
```

FRAME BACK

This operation performs frame back.

CAUTION

 When performing this operation, do not put your hands, etc. under the needle or on the machine table. You may be injured by the needle or the moving frame.

1. Select back.

```
***** EMB PAUSE *****
TAJIMA12.DST ◆1
655/ 1027
01/15:123456789AB<D>
```



 When 1 stitch unit is set, pressing "BACK" once will perform frame forward for one stitch.

2. Keep on pressing the back key.

```
***** EMB PAUSE *****
TAJIMA12.DST ◆1
653/ 1027
01/15:123456789AB<D>
```



 When keeping on pressing the back key for one or more seconds, frame travel by frame back will be performed even if the back key is released.
To stop the machine, press the stop switch.

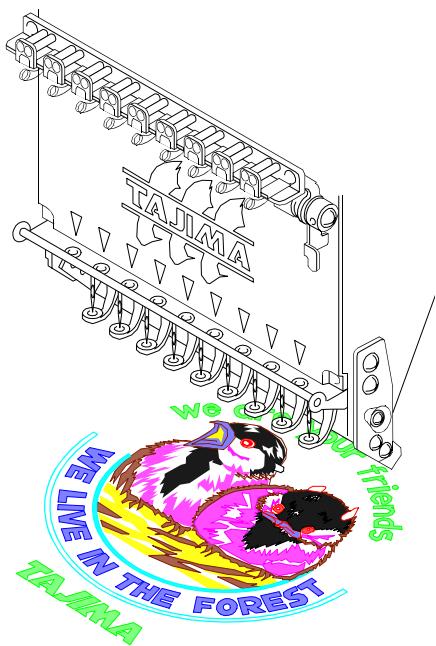
3. The machine stops at color change position.

```
***** EMB PAUSE *****
TAJIMA12.DST ◆1
488/ 1027
01/15:123456789AB<D>
```

 It is possible to continue frame back up to color change position.

11. OUTLINE OF FUNCTIONS

ROTATE	11-2
MIRROR	11-2
REPEAT	11-3
OFFSET	11-4
SATIN ADJUST.....	11-6
TRACE	11-7



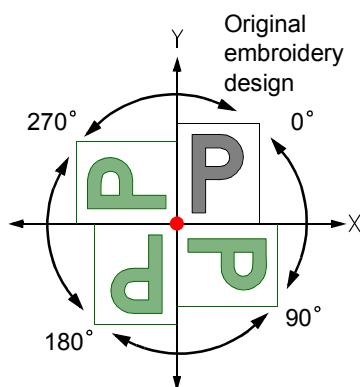
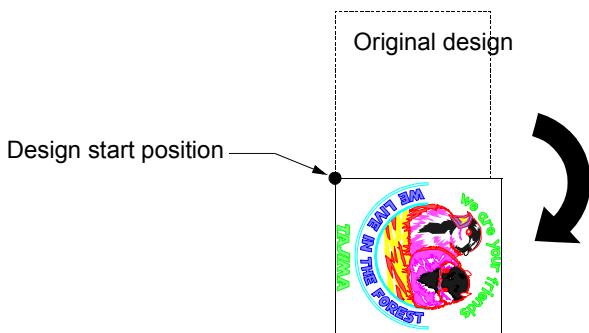
ROTATE

This function rotates design of which data has been set.

The design is rotated centering the design start position.

Rotation unit: 90°

<Example: 90° -rotation>



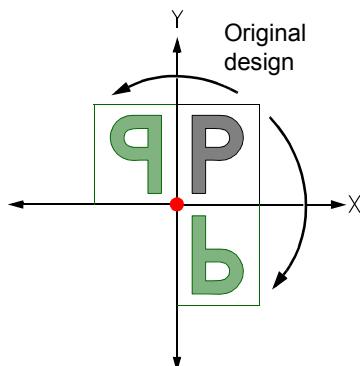
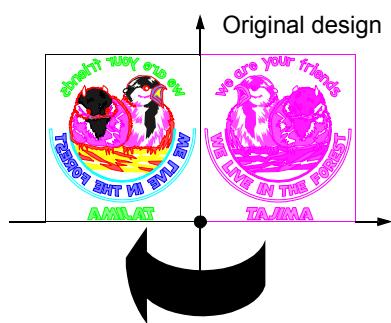
MIRROR

This function reverses design of which data has been set.

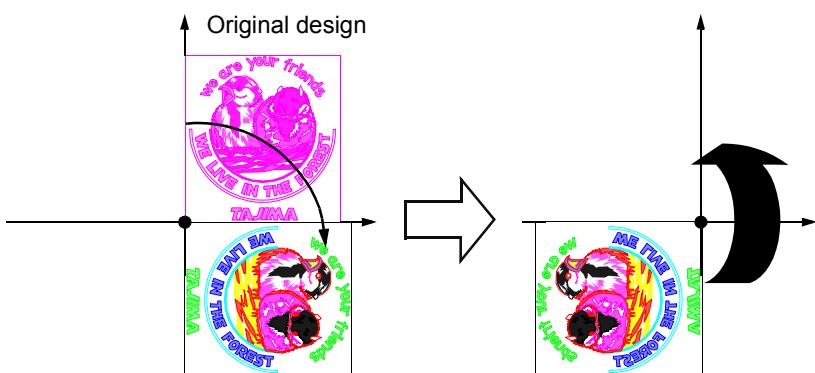
The design is reversed on X/Y-axis based on the design start position as the base line.

Reversing axis: X (Symmetric with respect to the X-axis)/Y (Symmetric with respect to the Y-axis)

<Example: Y-axis reversion>



<Example: 90°-rotation and Y-axis reversion>



When both rotation and mirror are set, the order of priority becomes rotation → mirror (reversion).

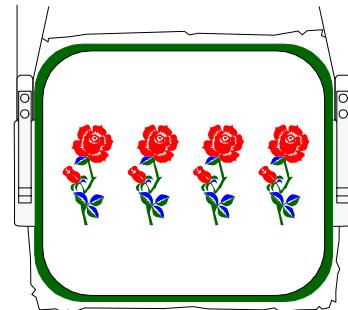
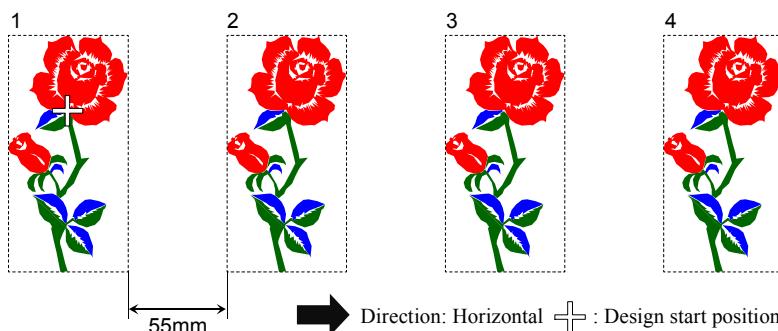
REPEAT

This function performs embroidery repeatedly using design of which data has been set.
It sets embroidering direction, the number of repeats, and design interval.

- It is possible to rotate and/or reverse (mirror) the design repeatedly arranged.

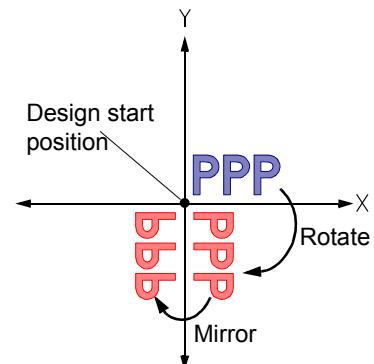
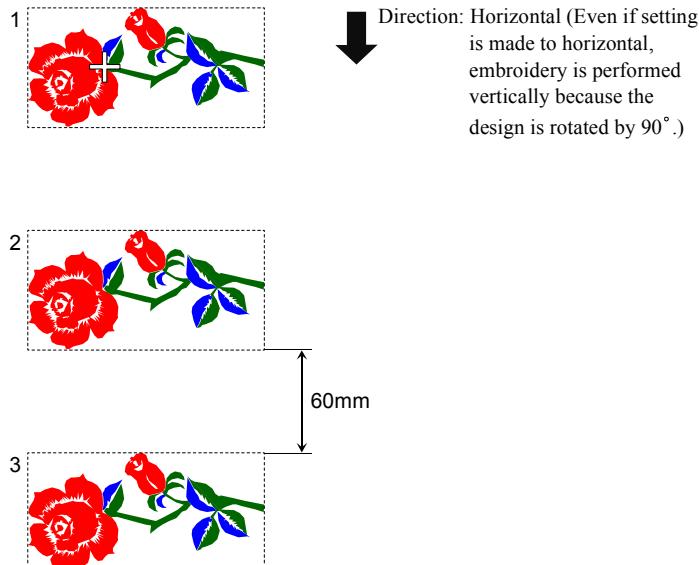
The order of priority: Repeat → rotation → mirror

<Example: Direction → Horizontal (X), The number of repeats → 4, Interval → 55 mm>



- When performing "Trace" after setting "Repeat", it will be possible to confirm the whole embroidery space. Adjust start position, the number of repeats, interval, etc. so that the embroidery space does not exceed the frame.

<Example: Direction → Horizontal, The number of repeats → 3, Interval → 60 mm, Rotation → 90°, Mirror → Y>



- If mirror is applied on X-axis in the repeat setting above, the order of embroidery will become in reverse.

OFFSET

This function makes the frame move to the position set by offset, and return the frame to the original position after working.

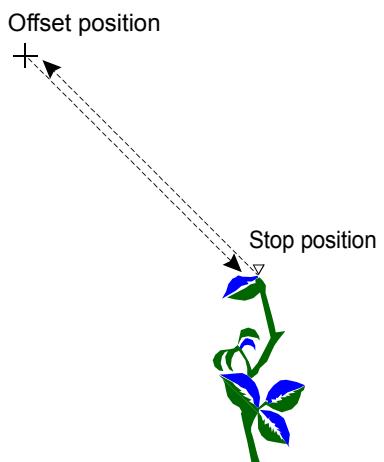
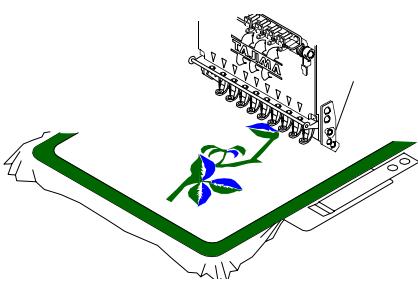
Offset includes manual/automatic setting (frame setting).

1. Manual Offset

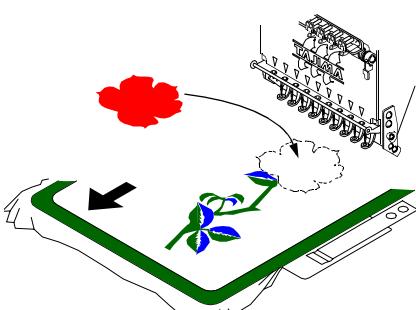
Pressing “OFFSET” at machine stop will cause the frame to move to the offset position. Pressing the “OFFSET” once more will cause the frame to return to the original position.

<Example: Placing applique>

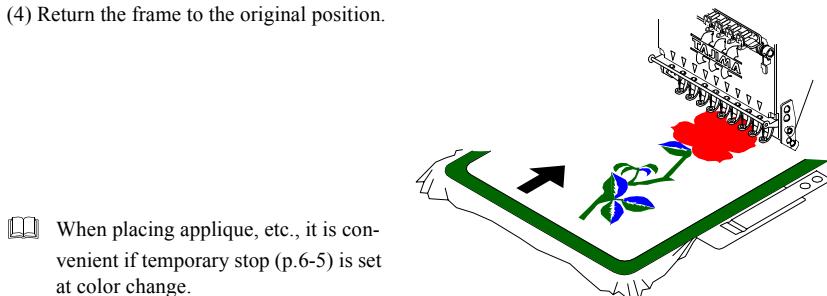
(1) Stop the machine.



(2) Move the frame to the offset position.



(3) Place applique.



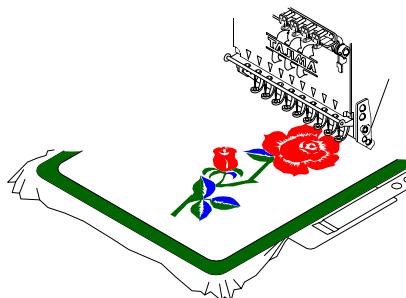
When placing applique, etc., it is convenient if temporary stop (p.6-5) is set at color change.

2. AUTOMATIC OFFSET

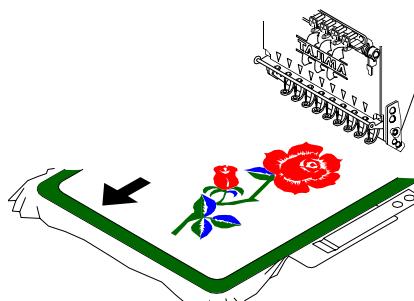
This setting makes the frame move to the offset position automatically when embroidery is finished if offset position is set and offset of frame setting is set to auto.

<Example: Frame exchange>

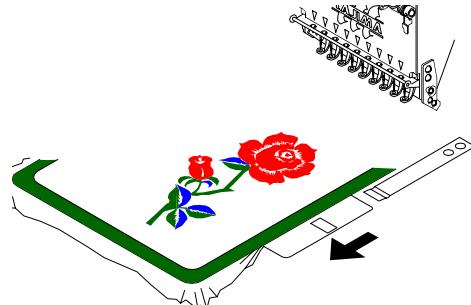
(1) Embroidery is finished.



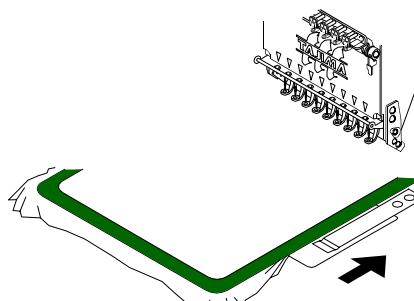
(2) Move the frame to the offset position.



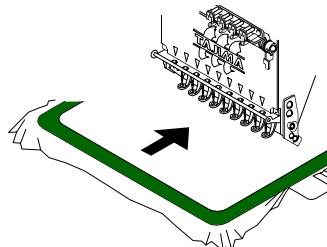
(3) Change the frame.



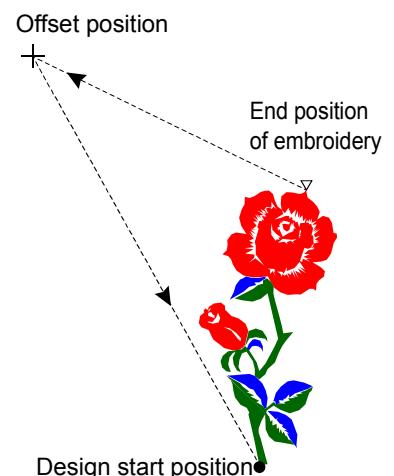
(4) New frame (Re-stretching of cloth)



(5) When pressing the start button, the frame will move to the design start position and embroidery will start.

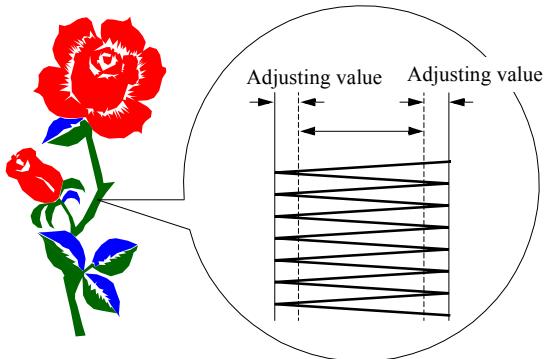


- When embroidering the same design, to perform embroidery from the same start position, set frame setting "START POINT (Origin Return)" (p.9-4) to auto.



SATIN ADJUST

This function expands satin stitch length.



To expand satin stitch length, set satin adjust of machine setting.

Setting value: OFF, 1~5 (0.1~0.5 mm)

When selecting value 2, 0.2 mm will be added to the both sides of satin stitch.

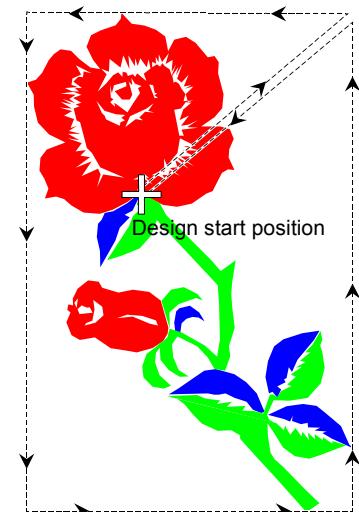
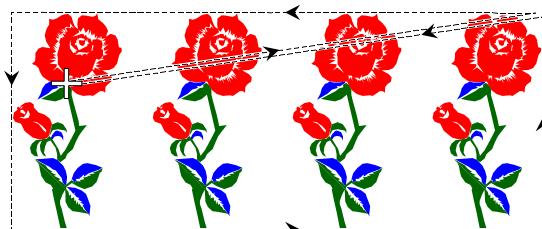
-  Although 1.5 mm and longer stitches are adjusted by setting value of satin adjust, regarding less than 1.5 mm long stitches the adjusting value will become small.
When switching the DIP switch (2DSWS: p.3-4) on the operation panel, it is possible to apply satin adjust to 0.6 mm and longer stitches.

TRACE

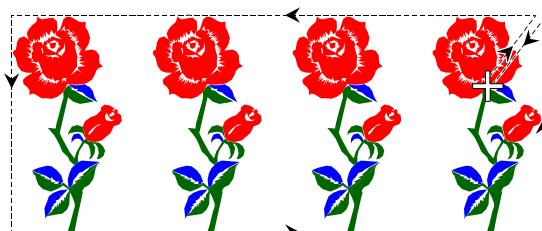
This function makes the frame move along the square embroidery space of design of which data has been set.

When tracing the set design, the frame will move from the design start position to four corners (right, rear, left, and front) of the embroidery space and then return to the design start position.

When repeat is set, the machine will trace the whole embroidery space.



If Mirror: Y is set to the repeat shown above, the machine will perform trace as shown below.

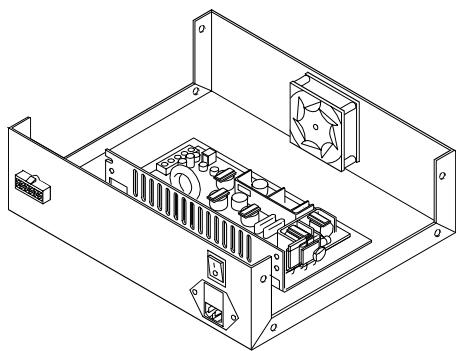




OUTLINE OF FUNCTIONS

12. ELECTRO-COMPONENT PARTS

POWER SUPPLY BOX	12-2
POWER CARD.....	12-2
CONSOLE 1 CARD	12-3
COMPUTER CARD.....	12-3
CONSOLE 2 CARD	12-4

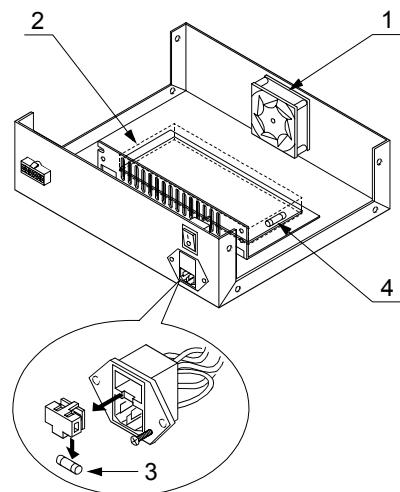
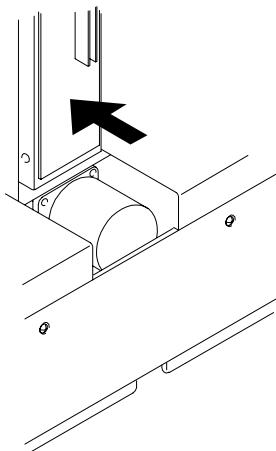


**CAUTION**

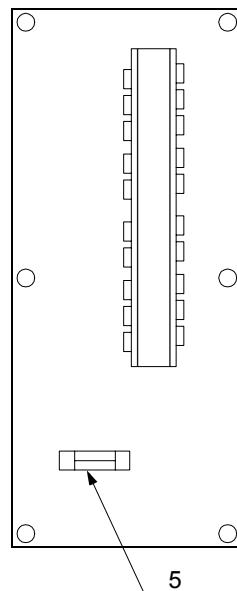
Do not block wind flow of cooling fans. Parts in the box are overheated, causing machine malfunction.

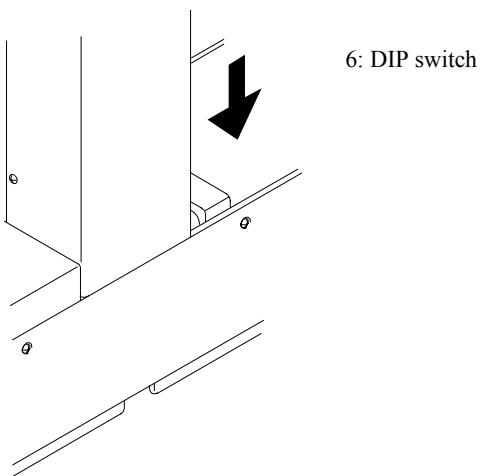
POWER SUPPLY BOX

1. Cooling fan
2. DC power supply
3. Glass tube fuse (250 V/8 A) For AC power supply
4. Glass tube fuse (250 V/6.3 A) For AC power supply

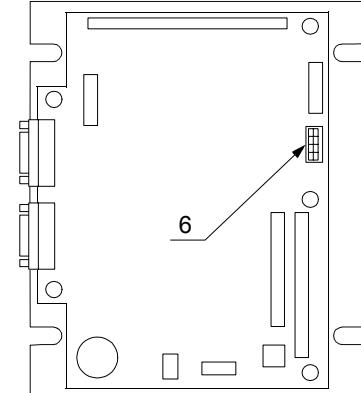
**POWER CARD**

5: Glass tube fuse (125 V/20 A)
For DC 24 V power supply



CONSOLE 1 CARD

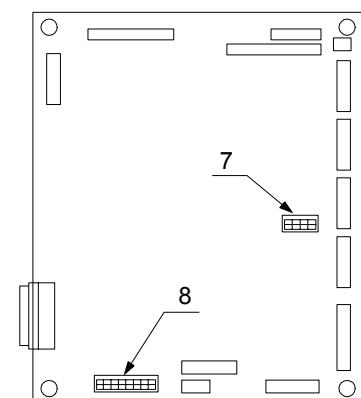
6: DIP switch

**COMPUTER CARD**

7: DIP switch

8: DIP switch

The computer card is located under the console 1 card.





CONSOLE 2 CARD

9: DIP switch

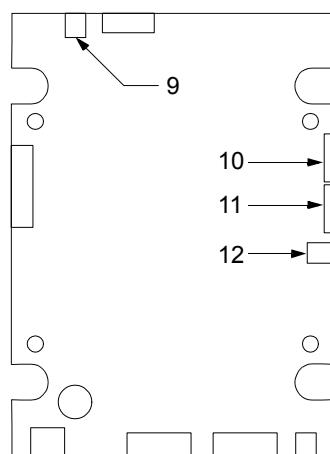
10: DIP switch

11: DIP switch

12: DIP switch

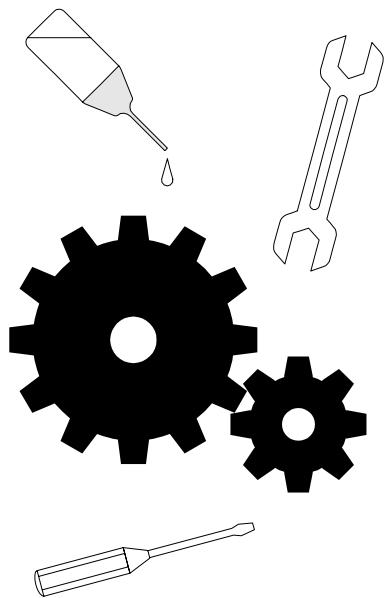


The console 2 card is located in the operation panel.



13. TROUBLESHOOTING AND MAINTENANCE

WHEN THE MACHINE IS STOPPED DURING OPERATION....	13-2
WHEN TROUBLE OCCURS.....	13-4
DAILY MAINTENANCE.....	13-5



WHEN THE MACHINE IS STOPPED DURING OPERATION

There are two main machine-stop factors: one is stop by occurrence of error and another is stop by normal stop factor. When the machine is stopped during operation with code number displayed on the screen, carry out the troubleshooting referring to the code chart below.

**** EMB PAUSE ****

THREAD BREAK
(291)

Example of stop by occurrence of error

1. Stop by Occurrence of Error

- When releasing the error display
 - (1) Confirm the contents of error
 - (2) Take proper action. If a code number of 300 series is displayed, contact the distributor.
 - (3) Press the stop button to release the error.

Code number	Stop factor	Corrective action
225	Stitching outside the embroidery space. (Cap frame)	Move the frame manually so that the design fits in the embroidery area.
281	The target needle position is not detected within 15 seconds after the start of color change.	<ul style="list-style-type: none"> • Return the needle position to make the correct display. • Adjust or replace the potentiometer (needle position sensor).
291	Upper thread breakage is detected.	Check the upper thread/under thread.
2CF	Stop by the emergency stop switch	Release the lock of the emergency stop switch.
2FC	Abnormal temperature in the machine.	<ul style="list-style-type: none"> Check if the room temperature is too high. Check the cooling fan.
316	A main shaft motor error signal is detected.	Replace the power card, main shaft motor.
322	An X-axis motor error signal is detected.	Replace the power card, X-axis motor.
323	A Y-axis motor error signal is detected.	Replace the power card, Y-axis motor.
383	Abnormal input of needle position	Check setting for the number of needles of parameter.
	No needle position signal is detected during rotation of the main shaft.	Check the potentiometer (needle position sensor).
3A6	Incorrect ATH movable knife retract position	Check the position of ATH movable knife.
3B5	Communication error in the controller	Turn ON the power again.
3B6	Communication error with the external device	Check the connecting cable, external device.
3D5	RAM memory error	<ul style="list-style-type: none"> • Install the operation program again. • Replace the Console 1 Card.
B01	Floppy disk format has an error.	<ul style="list-style-type: none"> • Format the floppy disk. • Replace with a new formatted floppy disk.
	An error occurred during read operation.	Copy other designs to a new floppy disk and dispose of the old floppy disk.
B04	No floppy disk has been inserted.	Insert a floppy disk.
BC1	No design is registered on the floppy disk.	Insert the floppy disk in which design data is registered.
BC3	Other data than design data is registered in the floppy disk.	Insert the floppy disk in which design data is registered.
C01	FDD does not work.	<ul style="list-style-type: none"> Check if the floppy disk is inserted to the fixed position. Check the FDD connector. If there is no problem with the connection, replace the FDD.

2. Maintenance Stop

Maintenance Stop is stop for maintenance. It is not caused by occurrence of error.

 The message is displayed when embroidery starts (pressing the start button).

<p>When the message shown right is displayed on the screen, supply oil to the specified spots (p.13-7). After the lubrication, press the stop button to release the maintenance mode to continue working.</p>	<p>* *MAINT.REQUIRD* * One drop of oil → As per Inst. Manual</p>
<p>When the message shown right is displayed on the screen, grease the specified spots (p.13-8). After the greasing, press the stop button to release the maintenance mode to continue working.</p>	<p>!CAUTION:Grease Cams Take-up, Presser → As per Inst. Manual</p>
<p>When the message shown right is displayed on the screen, grease the specified spots (p.13-8). After the greasing, press the stop button to release the maintenance mode to continue working.</p>	<p>!CAUTION:Grease Cams Take-up, Presser, Trim Needle Case Drive → As per Inst. Manual</p>

WHEN TROUBLE OCCURS

CAUTION

! Adjustment includes some complicated works. Consult the distributor before working.

Examples for causes and adjustments when trouble(s) occur are described below.

	Cause	Adjustment
Machine cannot start	Loose or broken belts	Adjust the belt tension or replace the belt.
	Needle position signal, NOT detected.	Adjust the needle position so that needle position signal is properly displayed in the needle position column on the operation panel.
	Poor connection of connector	Securely connect the connectors.
Stop position error	Loose or soiled belt	Adjust the belt tension or clean the belt.
	Seizure of driving parts	Adjust/replace the needle bar drive system and/or rotary hook.
Incorrect color change	Positioning error of needle bar at stop	Adjust the position.
	Positioning error of take-up lever at stop	Adjust the take-up lever at stop position so that its position is the same as others.
	Needle position number NOT detected.	Adjust the needle position so that needle position signal is properly displayed in the needle position column on the operation panel.
Jump error	Incorrect positioning of parts related to needle bar drive system	Adjust the attaching position of the needle bar reciprocator set with the upper dead point stopper.
Design displaced	Incorrect tensioning of frame drive belt	Adjust the belt tension.
	Malfunctioning of frame drive parts	Replace/adjust the parts.
	Overall weight frame weight is excessive.	Lower the r.p.m. of the main shaft.
	Drive unit (X, Y-axis) defective	Replace the drive unit.
		Replace the X-axis/Y-axis driver.
Thread breaks	Wrong needle-rotary hook timing or improper gap	Adjust the timing or gap.
	Wrong needle bar lower dead point	Adjust the lower dead point again.
	Scratches on thread passing area	Remove the scratches.
	Incorrect upper/lower thread tension	Adjust the tension.
	Repeated stitching at the same point	Correct the embroidery data.
	Incorrect take-up lever timing	Readjust the take-up lever drive cam timing.
ATH	Thread is not trimmed.	Adjust the ATH knife position.

DAILY MAINTENANCE

1. Warnings and Cautions

WARNING

To prevent accidents resulting in injury or death and physical damage, the following must be observed when performing daily maintenance (cleaning, lubrication, greasing, and/or inspection).

-  The maintenance operations must be performed by properly trained personnel.
-  When restarting the machine after maintenance operation, attach all covers, etc., which were removed for maintenance operation.

CAUTION

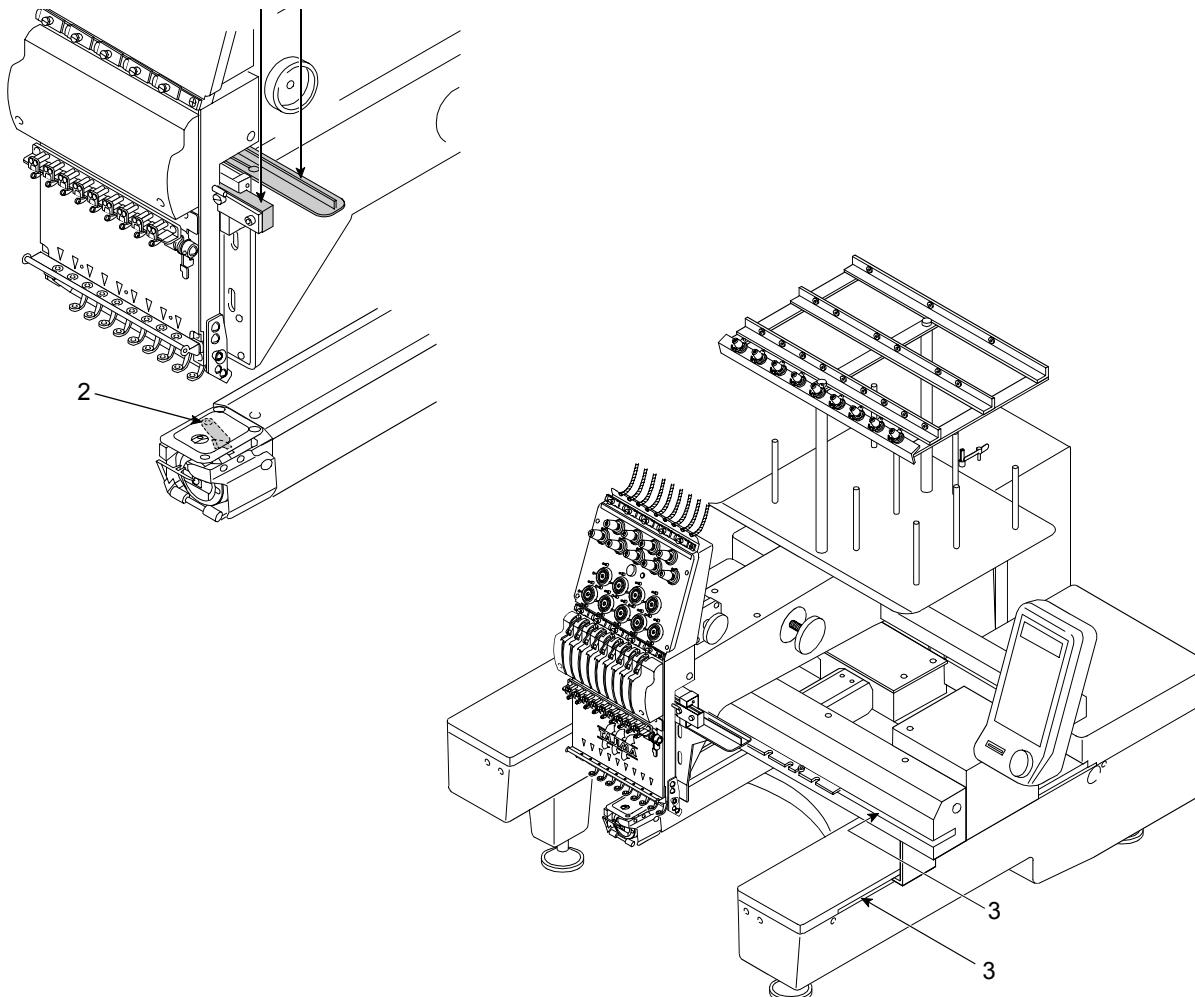
-  Perform daily maintenance in the specified schedule. If the daily maintenance is not observed, the machine may fail to operate correctly. Since the loss incurred by ignoring the daily maintenance instructions can be judged "not covered by guarantee", you are required to follow the daily maintenance instructions carefully.
-  If the machine is not used for a long period, turn ON the power switch in regular intervals. The cards (PCBs) used in the machine have backup battery for retaining the data and if the machine is left with the power switch OFF for approximately one month, the data will be lost due to discharging of the battery.

2. Cleaning

WARNING

- !** Before starting cleaning of the machine, be sure to disconnect the primary power to the machine and wait for 4 minutes. You could sustain electric shock or injury due to being entangled by the machine.
- !** The maintenance operations must be performed by properly trained personnel.
- !** When restarting the machine after maintenance operation, attach all covers, etc., which were removed for maintenance operation.

Cleaning Area	Cleaning Cycle
(1) Take-up lever guide, Case linear section	Once/week
(2) ATH section	Everyday
(3) X/Y-axis drive system	Once/2 weeks



3. Lubrication

⚠ WARNING

- ! During machine lubrication, turn OFF the power switch. You could sustain severe injuries due to being entangled by moving machine units.

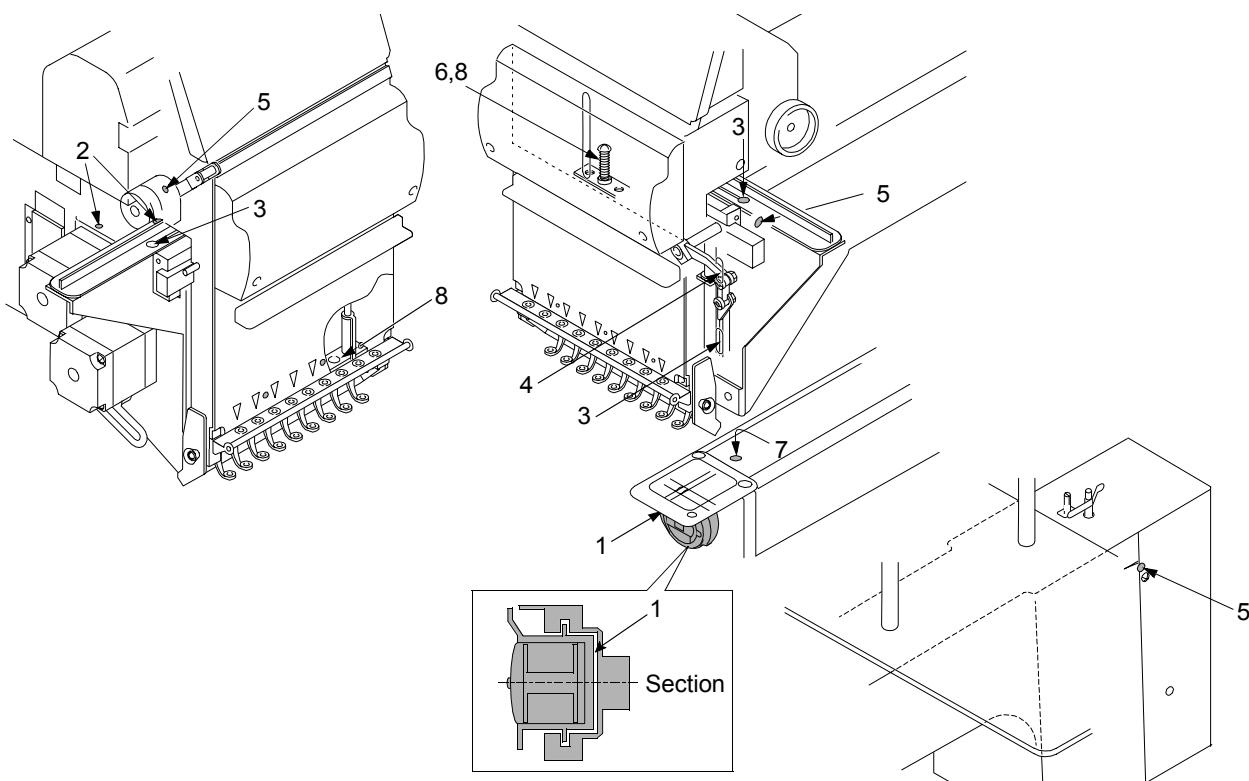
⚠ CAUTION

- ! Keep the lubrication cycles as shown below. Deviated lubrication cycles may cause thread breakage.
- ! When supplying lubricating oil, use only Tajima's genuine SF oil or equivalent (#150 spindle oil: ISO viscosity grade = VG18).

Lubrication Points	Lubrication Cycle
(1) Rail on rotary hook	Every 3 to 4 hours of operation
(2) Drive shaft of presser foot reciprocator (3) Needle bar drive shaft	Once/day
(4) Presser foot drive shaft (5) Inside the arm (6) Needle bar	Once/week
(7) Inside the cylinder bed (8) Felt packing (needle bar)	Once/3 months

As the guidance persuading the operator to perform lubrication to the rail section of rotary hook, the machine has a function to display maintenance information (p.13-3) on the operation panel.

When the maintenance information is displayed, turn OFF the power switch and supply oil to the rail section of rotary hook. For other lubrication cycles, refer to the chart shown left.



4. Greasing

⚠ **WARNING**

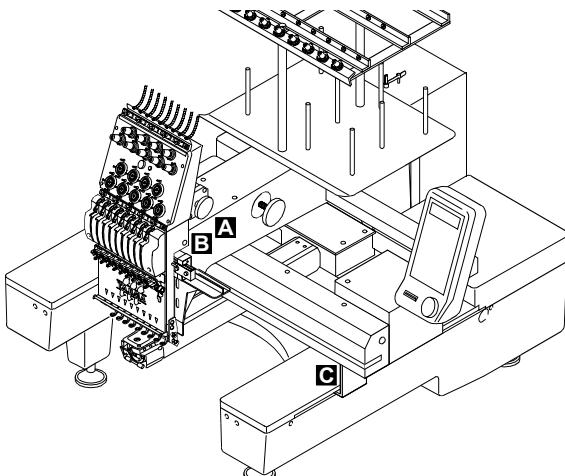
! During machine greasing, turn OFF the power switch. You could sustain severe injuries due to being entangled by moving machine units.

⚠ **CAUTION**

! Please contact the distributor for further information about greasing.

! When greasing, use only high quality mineral oil based lithium grease or equivalent.

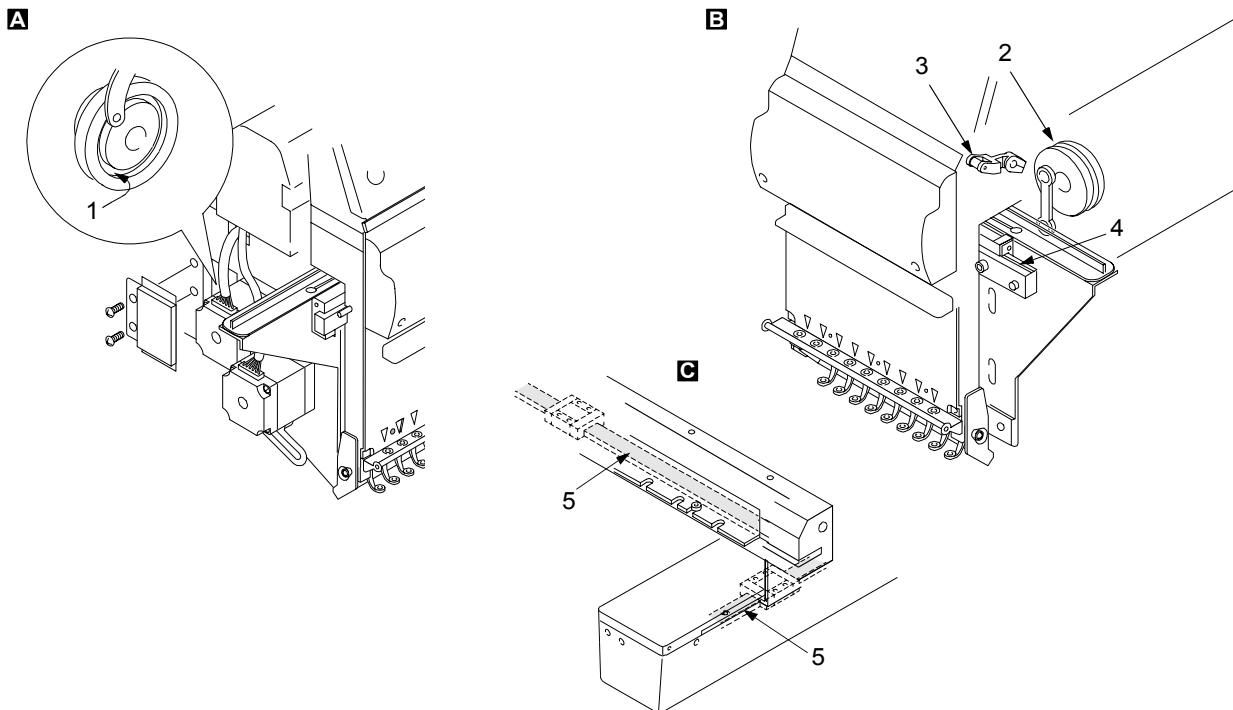
Greasing Points	Greasing Cycle
(1) Presser foot cam (2) Take-up lever drive cam (3) Roller of take-up lever	Once/3 months
(4) Case linear section (5) X/Y-axis drive system	Once/6 months



As the guidance persuading the operator to perform greasing, the machine has a function to display maintenance information (p.13-3) on the operation panel.

When the maintenance information is displayed, turn OFF the power switch and perform greasing to the specified spots.

For other greasings, refer to the chart shown above.



5. Inspections

WARNING

- !** During machine inspection, turn OFF the primary power supply. (Before disconnecting the primary power supply, turn OFF the power switch.) You could sustain severe injuries due to being entangled by moving machine units.

Inspection Point	Contents	Cycle
(1) Each belt of main shaft drive system	Tension and wear of belt, Existence of crack	Once/3 months
(2) Each belt of X/Y-axis drive system	Tension and wear of belt, Existence of crack	
(3) Rotating and sliding sections	Degree of wear	

6. Repair

WARNING

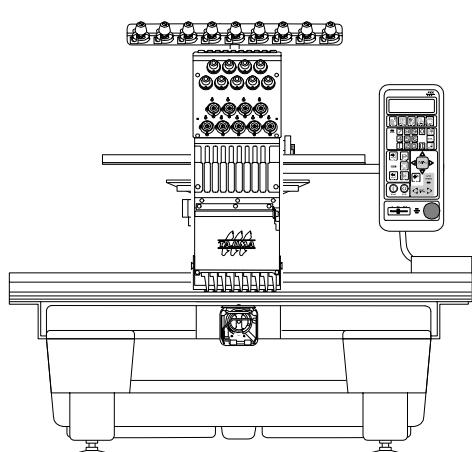
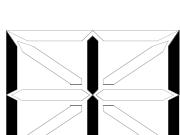
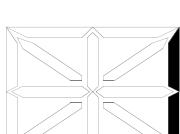
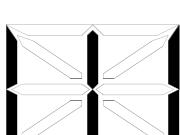
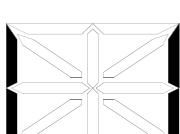
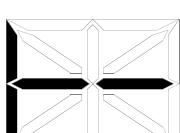
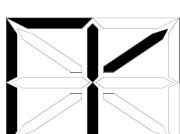
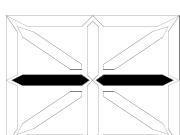
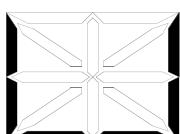
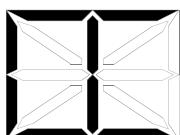
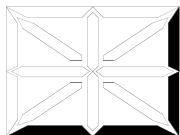
To prevent accidents resulting in injury or death and physical damage, the following must be observed when performing the repairs of the machine.

- !** Before starting repair of the machine, be sure to disconnect the primary power supply to the machine and wait for 4 minutes. (Before disconnecting the primary power supply, turn OFF the power switch.) It takes 4 minutes until the machine becomes completely discharged.
- !** If the machine needs repairs, the repairs must be done only by the service personnel assigned and trained by Tajima or qualified technician. (Consult the distributor.) Do not change the specification nor modify the parts of the machine. Such modification could risk the operational safety.
- !** When restarting the machine after repairs, attach all covers, etc., which were removed for the repair operation.

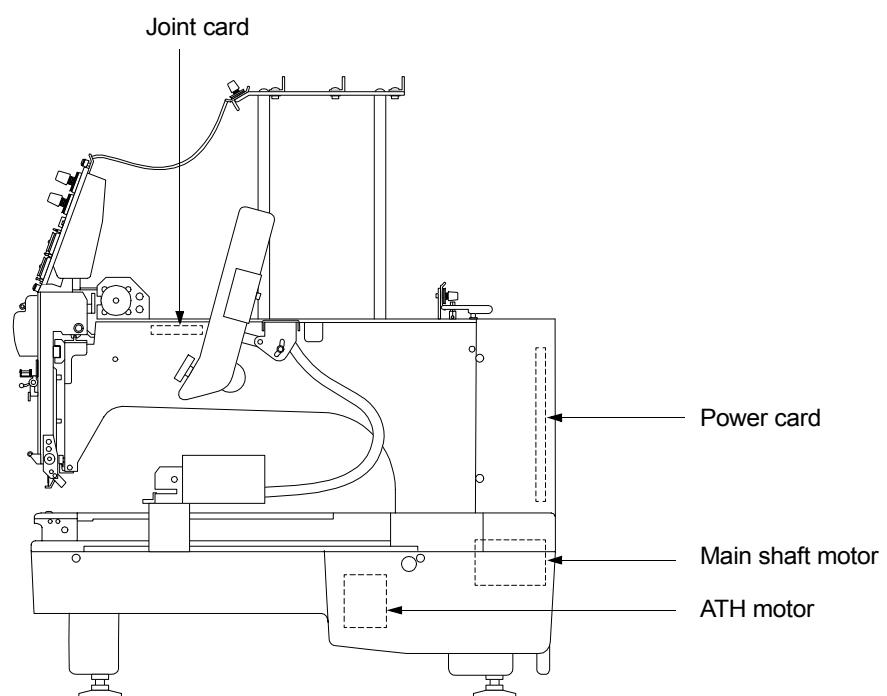
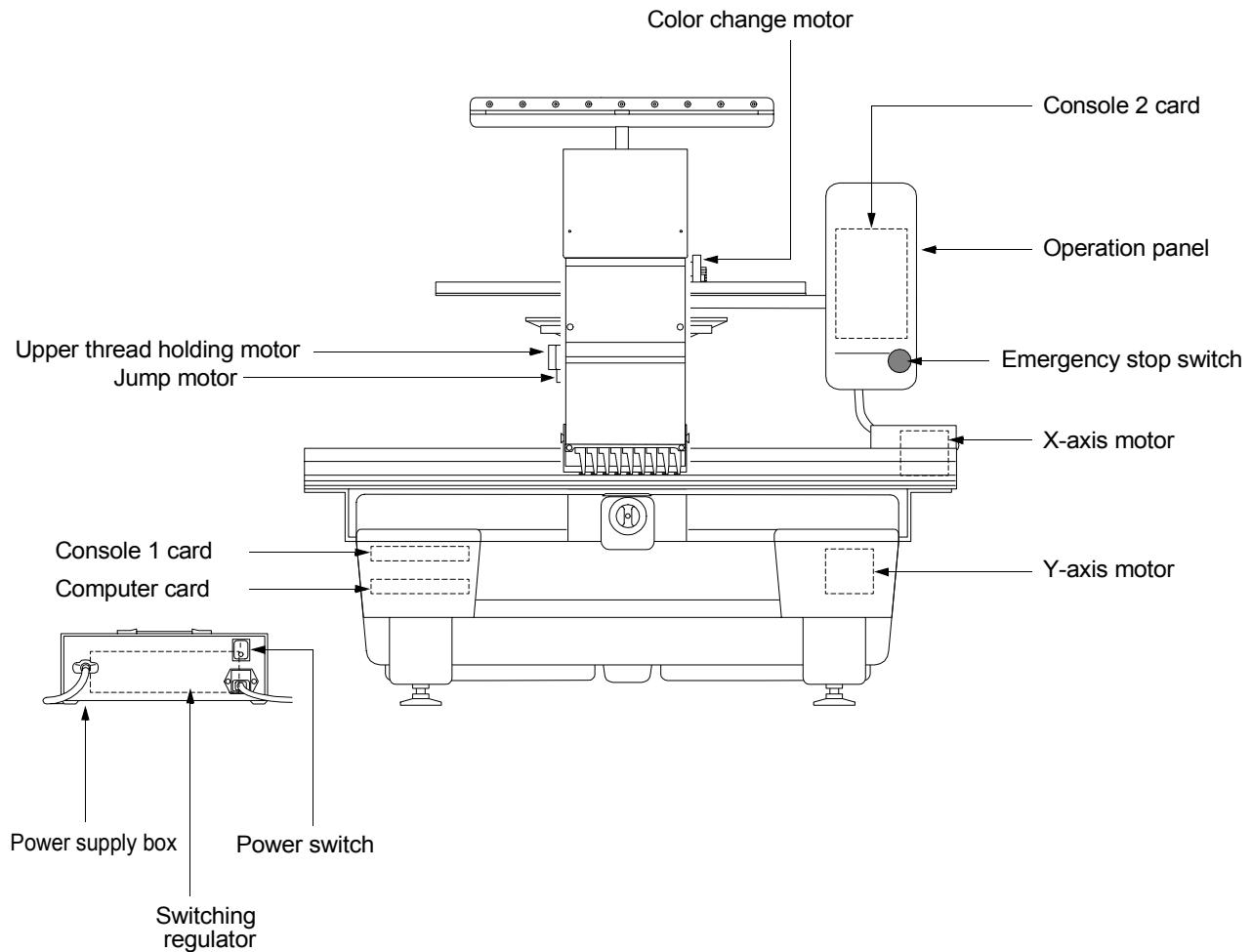
CAUTION

- !** For the machine repairs, use TAJIMA genuine parts for replacement.

ELECTRO-RELATIVE DRAWINGS

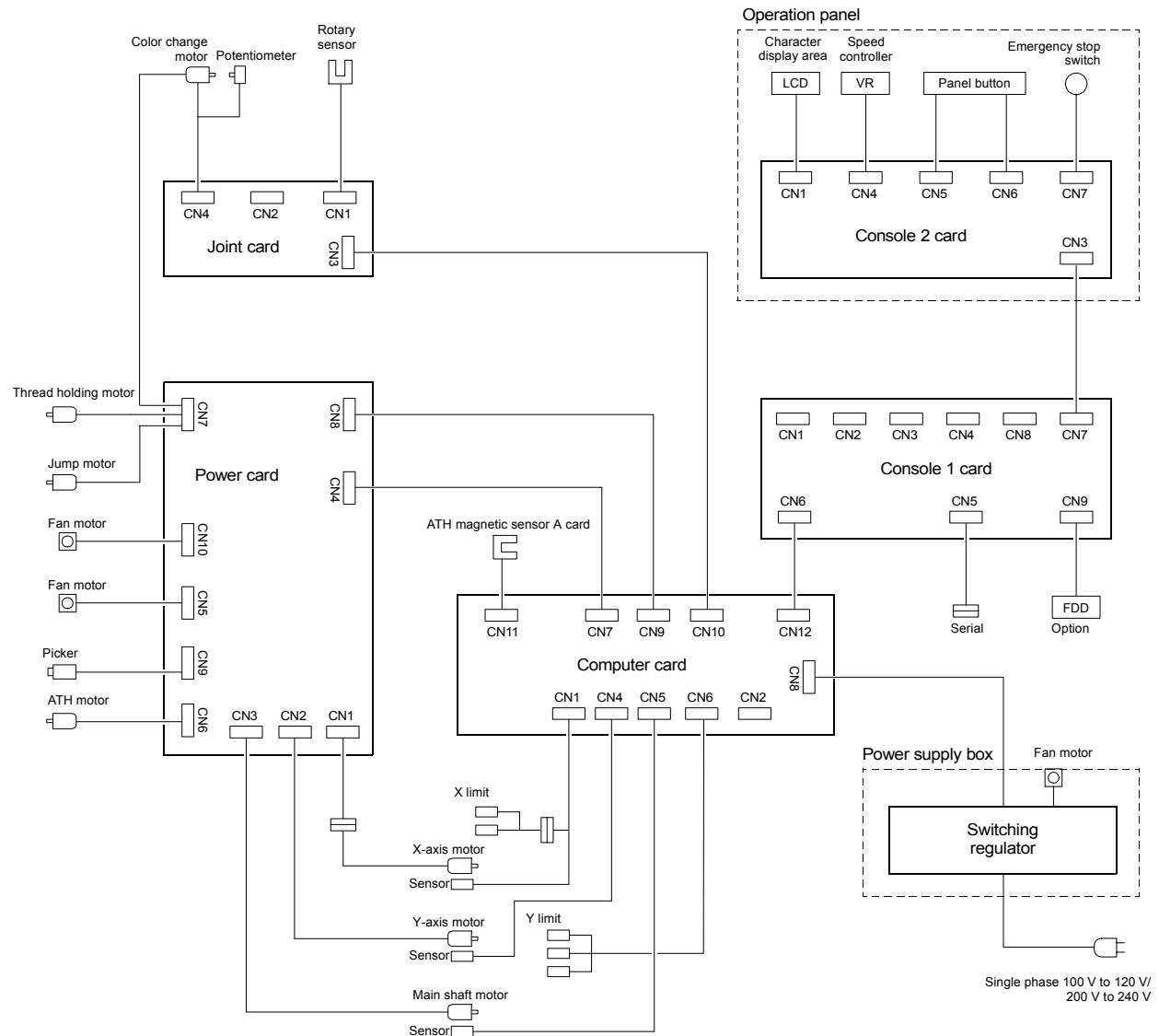


1. Layout Drawing of the Electrical Parts





2. Electrical System Diagram





1st Edition (2002.07) July, 2002

**■ Manufactured by:
Tokai Industrial Sewing Machine Co., Ltd.**

NO.1800, Ushiyama-cho, Kasugai, Aichi-pre., 486-0901, Japan
Telephone:568-33-1161 Fax:568-33-1191

**■ Distributed by:
Tajima Industries Ltd.**

19-22, Shirakabe, 3-chome, Higashi-ku, Nagoya, 461-0011, Japan
Telephone:52-932-3444 Fax:52-932-2457

■ Authorized Distributor:

